

 $\frac{\text{CSD-TD51}}{\text{CSD-TD52}} \text{ U(S),K(S),EZ(S)} \\ \frac{\text{CSD-TD52}}{\text{CSD-TD53}} \text{ U(L)}$ 



# SERVICE MANUAL

COMPACT DISC RADIO CASSETTE RECORDER

- BASIC TAPE MECHANISM: TN-21ZVC-2000
- BASIC CD MECHANISM: DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CSD-TD51 U(S)/TD52 U(W)/TD53 U(L)(S/M Code No. 09-003-343-3T1) CSD-TD51 EZ(S),K(S)(S/M Code No. 09-003-343-3T2).





### **SPECIFICATIONS**

### **U MODEL**

### Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step) Ferrite bar antenna

### Deck section

- 4 tracks, 2 channels / Frequency range - Normal tape: 50 - 12,500 Hz (ElAJ) / Recording system — AC bias / Frasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

### CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 15 W Dimensions (W × H × D) — 302 × 162 × 253 mm (12 × 6 $^1$ /2 × 10 in.) Weight (excluding batteries) — 2.7 kg (5 lbs. 15 oz.)

• Design and specifications are subject to change without notice.

### **EZ MODEL**

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, MW: 531/530 - 1,602/1,710 kHz (9/10 kHz step) Ferrite bar antenna, LW: 153 - 288 kHz Ferrite bar antenna

### Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section . Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General
Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.9 W + 2.9 W (DIN MUSIC POWER), 2.5 W + 2.5 W (EIAJ 7 ohms DC), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption — 14 W Dimensions (W × H × D) — 302 × 162 × 253 mm Weight (excluding batteries) - 2.7 kg

• Design and specifications are subject to change without notice.

### K MODEL

### Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, MW: 531/530 - 1,602/1,710 kHz (9/10 kHz/step) Ferrite bar antenna, LW: 153 - 288 kHz Ferrite bar antenna

### Deck section

- 4 tracks, 2 channels / Frequency range -- Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Frasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

### CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms DC), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption —

Dimensions (W  $\times$  H  $\times$  D) - 302  $\times$  162  $\times$  253 mm Weight (excluding batteries) - 2.7 kg

 Design and specifications are subject to change without notice.

### PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

### **WARNING!**

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

### **VAROITUS!**

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

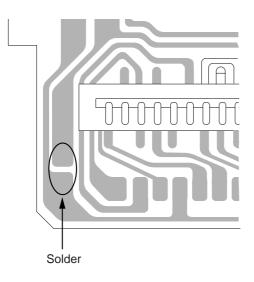
### **VARNING!**

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

# Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

 After the connection, remove solder shown in the right figure.



### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### **ATTENTION**

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

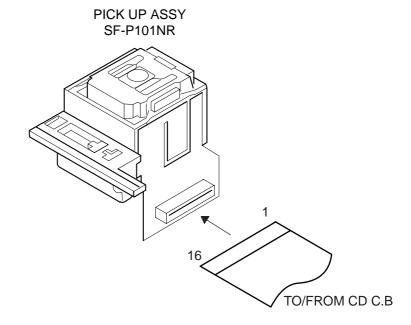
### ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT



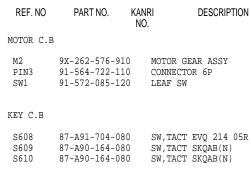
### **ELECTRICAL MAIN PARTS LIST**

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO. K	ANRI DESCRIPTION NO.	REF. NO	PART NO. KAI	NRI DESCRIPTION O.
IC			C317	87-010-197-080	CAP, CHIP 0.01 DM
			C801	87-010-248-080	CAP, ELECT 220-10V
	87-A21-550-010	IC,TA2149N	C805	87-012-365-080	C-CAP,S 0.027-25VBK
	87-A21-185-040	C-IC,LC72121M	C806	87-012-365-080	C-CAP,S 0.027-25VBK
	87-A21-064-010	IC,LA4227	C807	87-010-405-080	CAP, ELECT 10-50V
	87-A21-520-040	C-IC,M61509FP			
	87-A20-446-010	C-IC,LA9241ML	C808	87-010-405-080	CAP, ELECT 10-50V
			C809	87-010-401-080	CAP, ELECT 1-50V
	87-A20-459-010	C-IC, LC78622ED	C810	87-010-401-080	CAP, ELECT 1-50V
	87-A21-093-010	IC,LA6541D	C811	87-010-178-080	CHIP CAP 1000P
	8A-CH4-661-010	C-IC,LC867132V-5P07	C812	87-010-178-080	CHIP CAP 1000P
	87-A21-431-010	IC,BA4560N			
		.,	C816	87-010-180-080	C-CER 1500P
			C817	87-010-180-080	C-CER 1500P
TRANSISTO	)R		C821	87-010-401-080	CAP, ELECT 1-50V
			C822	87-010-401-080	CAP, ELECT 1-50V
	89-327-143-080	TR,2SC2714 (0.1W)	C823	87-010-178-080	CHIP CAP 1000P
	87-026-447-080	TR,2SC1740S R			
	89-111-624-080	TR, 2SA1162Y	C824	87-010-178-080	CHIP CAP 1000P
			C829		
	87-026-213-080	CHIP-TR,DTC114YK		87-010-178-080	CHIP CAP 1000P
	89-503-025-010	C-FET,2SK302GR<51 K <s>,51 EZ<s>&gt;</s></s>	C830	87-010-178-080	CHIP CAP 1000P
			C833	87-018-195-080	CAP, CER 1200P-16V
	89-320-011-080	TR,2SC2001 (15W)<51 K <s>,51</s>	C834	87-010-248-080	CAP, ELECT 220-10V
	87-026-230-080	EZ <s>&gt; CHIP-TR,DTA114YK&lt;51 K<s>,51</s></s>	C835	87-010-322-080	C-CAP,S 100P-50 CH
	J. 020 230 000	EZ <s>&gt;</s>	C836	87-010-322-080	C-CAP,S 100P-50 CH
	89-327-125-080	CHIP TR, 2SC2712GR	C843	87-010-322-080	CAP, CHIP 0.01 DM
					•
	89-112-965-080	TR,2SA1296 (0.75W)	C844	87-018-124-080	CAP, CER 270P-50V
	87-026-463-080	TR,2SA933S (0.3W)	C845	87-010-178-080	CHIP CAP 1000P
			-046		400 40
	87-026-291-080	TR,DTC124XS	C846	87-010-263-080	CAP, ELECT 100-10V
	89-213-702-080	TR,2SB1370E	C851	87-010-186-080	CAP,CHIP 4700P
	87-026-462-080	TR,2SC1740 S(RS 0.3W)	C852	87-010-178-080	CHIP CAP 1000P
	89-318-154-080	TR,2SC1815 (0.4W)	C853	87-018-211-080	CAP, CER 0.01-50
	89-109-332-380	TR,2SA933RS	CN201	87-099-018-010	CONN,16P
		,			,
	89-113-187-080	TR,2SA1318TU	CN801	87-A60-110-010	CONN,4P V S2M-4W
	87-026-295-080	TR, DTC144TK	CNA302	8A-CD9-629-010	CONN ASSY, 6P MA-TU
	87-026-237-080	CHIP-TR, DTC124XK	CNA801	8A-CD9-630-010	CONN ASSY, 4P RPH
	87-026-239-080	TR,DTC114TK (0.2W)	L801	87-007-342-010	COIL,OSC 85K BIAS
	87-026-464-080	TR,DTC114TS (0.3W)	SW801	8Z-CD9-609-010	SW,SL 1-6-2 PS62D01
DIODE			CD C.B		
	87-070-345-080	DIODE, IN4148	C30	87-010-260-080	CAP, ELECT 47-25V
	87-A40-616-070	VARI-CAP, SVC384(S/T)	C251	87-010-404-080	CAP, ELECT 4.7-50V
	87-A40-128-080	C-VARI-CAP, HVU202A	C261	87-010-402-080	CAP, ELECT 2.2-50V
	87-017-072-080	ZENER, HZS3B1	C262	87-010-402-080	CAP, ELECT 2.2-50V
		ZENER,HZ53B1 ZENER,HZ7A3L (200MA)<51 U <s>,53</s>			•
	87-027-399-080		C263	87-010-178-080	CHIP CAP 1000P
		U <l>,52 U<w>&gt;</w></l>	9064	07 010 170 000	CUID CID 1000D
			C264	87-010-178-080	CHIP CAP 1000P
	87-027-607-080	ZENER, HZ7B3L<51 K <s>,51 EZ<s>&gt;</s></s>	C265	87-010-263-080	CAP, ELECT 100-10V
	87-A40-648-080	ZENER, MTZJ8.2A	C266	87-010-263-080	CAP, ELECT 100-10V
	87-017-978-080	DIODE, 1N4003	C267	87-010-112-080	CAP, ELECT 100-16V
	87-020-465-080	DIODE,1SS133 (110MA)	C268	87-010-112-080	CAP, ELECT 100-16V
	87-027-702-080	DIODE, ZENER HZ6C2L (200MA)			
			C271	87-010-237-080	CAP, ELECT 1000-16V
	87-A40-465-010	DIODE, FR202	C272	87-010-237-080	CAP, ELECT 1000-16V
	0, 1110 100 010	21022/111202	C278	87-010-405-080	CAP, ELECT 10-50V
			C279	87-010-385-080	CAP, ELECT 220-25V
MAIN C.B			C301	87-016-495-000	CAP, ELECT 220-25V CAP, E 3300-25 M SMG
MAIN C.B			C301	07-010-495-000	CAP,E 3300-25 M SMG
C211	87-A11-603-080	CAP, S 0.05-16	0206	87-010-404-080	CAD FIRCT 4 7 50V
C211		•	C306		CAP, ELECT 4.7-50V
C212	87-A11-603-080	CAP, S 0.15-16	C307	87-010-401-080	CAP, ELECT 1-50V
C215	87-016-460-080	C-CAP,S 0.22-16 B	C308	87-010-221-080	CAP, ELECT 470-10V
C216	87-016-460-080	C-CAP,S 0.22-16 B	C311	87-010-263-080	CAP, ELECT 10-10V
C231	87-010-213-080	C-CAP,S 0.015-50 B	C312	87-010-385-080	CAP, ELECT 220-25V
C232	87-010-213-080	C-CAP,S 0.015-50 B	C321	87-010-197-080	CAP, CHIP 0.01 DM
C233	87-A10-201-080	C-CAP,S0.33-16 KB	C322	87-010-263-080	CAP, ELECT 100-10V
C234	87-A10-201-080	C-CAP,S0.33-16 KB	C325	87-010-405-080	CAP, ELECT 10-50V
C235	87-016-669-080	C-CAP,S 0.1-25 K B	C401	87-010-403-080	CAP, ELECT 3.3-50V
C235	87-016-669-080	C-CAP,S 0.1-25 K B	C401	87-010-197-080	CAP, CHIP 0.01 DM
C430	01-010-003-080	C-CAF, 0 U.1-23 N B	C4U2	01-010-121-080	CAP, CHIP U.UI DM
d0.25	07 010 271 000	CAD DIECE 470 FOT	0402	07 010 062 000	OND DIEGO 100 10**
C237	87-010-371-080	CAP, ELECT 470-50V	C403	87-010-263-080	CAP, ELECT 100-10V
C239	87-010-197-080	CAP, CHIP 0.01 DM	C404	87-010-248-080	CAP, ELECT 220-10V
C240	87-010-197-080	CAP, CHIP 0.01 DM	C405	87-010-197-080	CAP, CHIP 0.01 DM
C247	87-010-401-080	CAP, ELECT 1-50V	C406	87-010-374-080	CAP, ELECT 47-10V
C248	87-010-401-080	CAP, ELECT 1-50V	C407	87-010-178-080	CHIP CAP 1000P
0210	J. 010 101 000	,	0107	J. 010 1/0 000	
C310	87-010-248-080	CAP, ELECT 220-10V	C408	87-010-198-080	CAP, CHIP 0.022
C316	87-010-248-080	CAP, EDECT 220-10V CAP,E 100-10	C408	87-010-138-080	CAP, CHIP 0.022 CAP, ELECT 220-10V
COTO	37 010-203-000	OTT 1 TOO TO	C=U2	3, 010-740-000	CAL, HUECI 220-10V

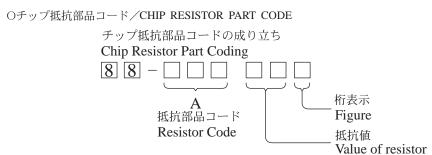
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANF NO.	
C410 C411 C412 C413 C414	87-010-263-08 87-A11-177-08 87-010-401-08 87-016-369-08 87-010-405-08	0 CAP, E 0 C-CAP, 0 CAP, E 0 C-CAP, 0 CAP, E	ELECT 100-10V S 0.15-16 K B ELECT 1-50V S 0.033-25 B K ELECT 10-50V	C503 C504 C505 C506 C510	87-010-322-08 87-010-322-08 87-010-322-08 87-010-322-08 87-016-669-08	80 80 80	C-CAP,S 100P-50 CH C-CAP,S 100P-50 CH C-CAP,S 100P-50 CH C-CAP,S 100P-50 CH C-CAP,S 0.1-25 K B
C416 C417 C418 C419 C420	87-010-545-08 87-012-157-08 87-010-213-08 87-A11-608-08 87-016-369-08	0 C-CAP, 0 C-CAP, 0 C-CAP,	ELECT 0.22-50V S 330P-50 CH S 0.015-50 B S 0.33-25 K B S 0.033-25 B K	C831 CN202 CN205 CN301 CN401	87-010-198-08 8A-CH4-689-03 87-A60-109-03 8A-CH4-689-03 87-A60-424-03	10 10 10	CAP, CHIP 0.022 CONN,3P V 2.5 CONN,2P V S2M-2W CONN,3P V 2.5 CONN,16P V TOC-B
C421 C422 C423 C424 C425	87-A11-177-08 87-010-183-08 87-010-956-08 87-010-993-08 87-010-176-08	0 C-CAP, 0 C-CAP, 0 CHIP-C 0 C-CAP, 0 C-CAP,	S 0.15-16 K B S 2700P-50 B CAP,S 0.068-25B S 0.056-25 B S 680P-50 SL	CN403 CN802 CNA205 CNA402 CNA802	87-099-201-03 8A-CH4-687-03 8A-CD9-631-03 8A-CD9-625-03 8A-CD9-631-03	10 10 10	CONN,8P 6216 H CONN,4P V 2.5 CONN ASSY, 2P DOOR CONN ASSY,6P CD-ME CONN ASSY, 4P TP-ME
C426 C428 C429 C430 C431	87-A11-608-08 87-010-197-08 87-010-186-08 87-012-156-08 87-010-545-08	0 CAP, C 0 CAP, CH 0 C-CAP,	S 0.33-25 K B HIP 0.01 DM IIP 4700P S 220P-50 CH LECT 0.22-50V	L401 L404 SFR430 SW205 X401	87-003-102-08 87-003-152-08 87-024-437-08 87-036-389-03 8Z-CD5-633-03	80 80 10	COIL, 10UH COIL, 100UH SFR100K,RH063EC SW, PUSH 1-1-1 R8120125 VIB, CER16.93MHZ FCR16.93M2
C432 C433 C434 C435 C436	87-010-374-08 87-010-401-08 87-010-184-08 87-010-197-08 87-010-374-08	0 CAP, E 0 CHIP ( 0 CAP, (	CLECT 47-10V CLECT 1-50V CAPACITOR 3300P(K) CHIP 0.01 DM CLECT 47-10V	FRONT C.B C601 C602	87-010-313-08 87-010-315-08		CAP, CHIP 18P C-CAP,S 27P-50 CH
C437 C438 C439 C440	87-010-404-08 87-016-669-08 87-010-178-08 87-010-145-08	O CAP, E O C-CAP, O CHIP O	ELECT 4.7-50V S 0.1-25 K B EAP 1000P S 1P-50 C CH	C603 C604 C605	87-010-319-08 87-010-312-08 87-010-317-08 87-010-196-08	80 80 80	C-CAP,S 271 30 CH C-CAP,S 56P-50 CH C-CAP,S 15P-50 CH C-CAP,S 39P-50 CH CHIP CAPACITOR,0.1-25
C441 C442 C445 C446	87-010-197-08 87-010-312-08 87-012-368-08 87-012-368-08	0 CAP, 0 0 C-CAP, 0 C-CAP,	S 15P-50 CH S 0.1-50 F S 0.1-50 F	C608 C610 C611 C612	87-010-196-08 87-010-555-04 87-010-196-08 87-A10-189-04	80 40 80	CHIP CAPACITOR,0.1-25 CAP,E 100-10 GAS CHIP CAPACITOR,0.1-25 CAP,E 220-10
C447 C448 C450 C451	87-012-368-08 87-010-315-08 87-012-140-08 87-012-156-08	0 C-CAP, 0 C-CAP, 0 CAP 47	S 0.1-50 F S 27P-50 CH	C613 C614 C615 C616 C620	87-010-495-04 87-010-196-08 87-010-493-04 87-010-494-04 87-015-785-08	80 40 40	CAP,E 2.2-50 GAS CHIP CAPACITOR,0.1-25 CAP,E 0.47-50 GAS CAP,E 1-50 GAS CHIP CAPACITOR, 0.1FZ-25Z
C455 C457 C458	87-010-247-08 87-010-312-08 87-010-312-08 87-010-263-08	0 CAP, E 0 C-CAP, 0 C-CAP,			87-A12-317-08 87-010-196-08 87-A12-317-08 87-A12-317-08	80 80 80	C-CAP,U 0.1-50 Z F CHIP CAPACITOR,0.1-25 C-CAP,U 0.1-50 Z F C-CAP,U 0.1-50 Z F
C460 C461 C462 C463	87-015-819-08 87-010-197-08 87-010-248-08 87-010-197-08	0 CAPACI 0 CAP, 0 0 CAP, E	THE TOWN OF THE T	C631 C632 C633 C635	87-A12-317-08 87-A12-317-08 87-A12-317-08 87-012-195-08	80 80 80	C-CAP,U 0.1-50 Z F  C-CAP,U 0.1-50 Z F  C-CAP,U 0.1-50 Z F  C-CAP,U 0.1-50 Z F  C-CAP,S 100P-50 J CH
C465 C466 C467 C469	87-010-404-08 87-012-368-08 87-010-263-08 87-012-154-08	0 C-CAP, 0 CAP, E 0 C-CAP,	CLECT 4.7-50V S 0.1-50 F CLECT 100-10V S 150P-50 CH	C636 C637 C638	87-012-195-08 87-012-195-08 87-012-195-08	80 80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH
C470 C471 C472 C473	87-010-544-08 87-015-785-08 87-015-785-08 87-015-785-08	O CHIP O	CAPACITOR, 0.1FZ-25Z CAPACITOR, 0.1FZ-25Z CAPACITOR, 0.1FZ-25Z CAPACITOR, 0.1FZ-25Z	C639 C640 C641 C642	87-012-195-08 87-012-195-08 87-012-195-08	80 80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH
C474 C475 C476 C477	87-015-785-08 87-010-197-08 87-010-236-08 87-010-197-08	0 CAP, C 0 CAP,E 0 CAP, C	CAPACITOR, 0.1FZ-25Z CHIP 0.01 DM 1000-10 SME CHIP 0.01 DM	C643 C644 C645 C646 C647	87-012-195-08 87-012-195-08 87-012-195-08 87-012-195-08 87-012-195-08	80 80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH
C478 C479 C480	87-010-263-08 87-010-197-08 87-010-221-08	0 CAP, C 0 CAP, E 0 CAP, E	CLECT 100-10V CHIP 0.01 DM CLECT 470-10V CLECT 10-50V	C648 C649 C650 C651	87-012-195-08 87-012-195-08 87-012-195-08 87-012-195-08	80 80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH
C482 C489 C490 C491	87-010-405-08 87-012-368-08 87-012-368-08 87-010-197-08	0 C-CAP, 0 C-CAP, 0 CAP, 0	S 0.1-50 F S 0.1-50 F S 0.1-50 F CHIP 0.01 DM	C652 C653 C654 C655	87-012-195-08 87-012-195-08 87-012-195-08 87-012-195-08	80 80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH
C492 C494 C495 C501 C502	87-010-221-08 87-010-197-08 87-016-669-08 87-012-368-08 87-010-322-08	0 CAP, 0 0 C-CAP, 0 C-CAP,	ELECT 470-10V HIP 0.01 DM S 0.1-25 K B S 0.1-50 F S 100P-50 CH	C656 C657 C658 CN601	87-012-195-08 87-012-195-08 87-A12-317-08 87-099-033-03	80 80	C-CAP,S 100P-50 J CH C-CAP,S 100P-50 J CH C-CAP,U 0.1-50 Z F CONN,16P 6216 H

REF. NO		ANRI DESCRIPTION NO.	REF. NO		NRI DESCRIPTION O.
CN602 CNA603 CNA604 L601 LCD601	87-099-201-010 8A-CD9-624-010 8A-CD9-623-010 87-003-102-080 8Z-CH4-635-010	CONN,8P 6216 H CONN ASSY,4P TU-FR CONN ASSY,4P KEY COIL, 10UH LCD,HLC7365 ZCH-4	C43 C44 C45 C46 C47	87-012-349-080 87-010-311-080 87-010-312-080 87-010-197-080 87-010-197-080	C-CAP,S 1000P-50 CH CAP 12P C-CAP,S 15P-50 CH CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM
LED602 LED603 LED604 LED606 LED607	88-CD6-630-010 88-CD6-630-010 88-CD6-630-010 88-CD6-630-010 88-CD6-630-010	LED,934ID RED LED,934ID RED LED,934ID RED LED,934ID RED LED,934ID RED	C48 C49 C50 C51 C52	87-010-197-080 87-012-140-080 87-010-197-080 87-010-316-080 87-010-197-080	CAP, CHIP 0.01 DM CAP 470P CAP, CHIP 0.01 DM C-CAP,S 33P-50 CH CAP, CHIP 0.01 DM
LED608 LED610 S601	88-CD6-630-010 88-CD6-631-010 87-A90-164-080	LED,934ID RED LED,934GD GRN SW,TACT SKQAB(N)	C53 C54	87-010-197-080 87-014-055-080	CAP, CHIP 0.01 DM CAP,PP 820P-100 J<51 K <s>,51 EZ<s>&gt;</s></s>
S604 S605	87-A90-164-080 87-A90-164-080	SW,TACT SKQAB(N) SW,TACT SKQAB(N)	C55 C71 C72	87-010-197-080 87-010-197-080 87-010-263-080	CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM CAP, ELECT 100-10V
S606 S607 S611 S613 S614	87-A91-704-080 87-A91-704-080 87-A90-164-080 87-A90-164-080 87-A91-704-080	SW,TACT EVQ 214 05R SW,TACT EVQ 214 05R SW,TACT SKQAB(N) SW,TACT SKQAB(N) SW,TACT EVQ 214 05R	C73 C75 C91 C92 C93	87-010-197-080 87-010-197-080 87-012-140-080 87-010-197-080 87-010-197-080	CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM CAP 470P CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM
S615 X601 X602 TUNER C.	87-A91-704-080 87-030-273-010 87-030-376-080	SW,TACT EVQ 214 05R VIB,XTAL 32.768K5PPM VIB,CER CSA5.76MG200	CF1 CF2 CF3 CN2 CN3	87-A91-094-010 87-008-261-010 87-008-261-010 87-099-854-010 87-A60-110-010	FLTR,CDA10.7 MG80A FILTER, SFE10.7MA5-A FILTER, SFE10.7MA5-A CONN,6P S2M-6W CONN,4P V S2M-4W
C1	87-010-314-080	C-CAP,S 22P-50V	CN605	87-A60-113-010	CONN, 2P H S2M-2WR
C2 C3	87-010-316-080 87-010-314-080	C-CAP,S 33P-50 CH C-CAP,S 22P-50V	HD1 HD2	88-CD6-661-010 88-CD6-661-010	HLDR, BAR ANT. HLDR, BAR ANT.
C5 C6	87-A11-067-080 87-010-313-080	C-CAP,S 1-10 K B CAP, CHIP 18P<51 U <s>,53 U<l>,52 U<w:< td=""><td>L2 L3</td><td>87-A50-560-010 8A-CH4-670-010</td><td>COIL,FM BPF(ACD) BAR-ANT,MW 2B-ACH(COI)&lt;51 U<s>,53 U<l>,52 U<w>&gt;</w></l></s></td></w:<></l></s>	L2 L3	87-A50-560-010 8A-CH4-670-010	COIL,FM BPF(ACD) BAR-ANT,MW 2B-ACH(COI)<51 U <s>,53 U<l>,52 U<w>&gt;</w></l></s>
C7 C8	87-014-049-080 87-012-349-080	CAP,PP 470P-100 J C-CAP,S 1000P-50 CH	L3	8A-CH4-671-010	BAR-ANT,MW/LW 3B-ACH(COI)<51 K <s>,51 EZ<s>&gt;</s></s>
C10 C11	87-010-197-080 87-010-197-080	CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM	L4 L5	87-A50-420-010 87-A50-566-010	COIL, MW OSC(SYN) COIL, FM RF EX(ACH)
C12	87-010-197-080	CAP, CHIP 0.01 DM	L6 L7	87-A50-567-010 87-A91-308-010	COIL,FM OSC(ACH) FLTR,PCFAZH- 450T (TOK)
C13 C14 C15 C16	87-010-150-080 87-010-303-080 87-012-349-080 87-010-374-080	C-CAP,S 6P-50 CH C-CAP,S 330P-50CH C-CAP,S 1000P-50 CH CAP, ELECT 47-10V	L8 L51	87-005-849-080 87-A50-421-010	COIL,10UH(CECS) COIL,LW OSC(SYN)<51 K <s>,51 EZ<s>&gt;</s></s>
C17 C18	87-010-198-080 87-015-835-080	CAP, CHIP 0.022 C-CAP,0.047 D	LED601 LED609 TC1	88-CD6-630-010 88-CD6-630-010 87-011-254-080	LED,934ID RED LED,934ID RED TRIMER,20P LAR
C19 C20	87-010-263-080 87-010-404-080	CAP, ELECT 100-10V CAP, ELECT 4.7-50V	TC51	87-A91-659-010	TRIMMER,50P 4.0X4.5 ECRL<51
C21 C22	87-010-197-080 87-010-197-080	CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM	X1	87-A70-061-010	K <s>,51 EZ<s>&gt; VIB,XTAL 4.500MHZ CSA-309</s></s>
C23 C24	87-010-197-080 87-015-770-080	CAP, CHIP 0.01 DM C-CHIP,330P(SL)K	H.P. CB		
C25 C27 C28	87-016-460-080 87-A11-067-080 87-016-669-080	C-CAP,S 0.22-16 B C-CAP,S 1-10 K B C-CAP,S 0.1-25 K B	CN101 CN102 HP1	8A-CD9-628-010 87-A60-685-010 87-A60-569-010	CONN ASSY, 3P MA-HP CONN, 4P H WHT EH JACK, HTJ-035-18
C29 C30	87-016-669-080 87-010-213-080	C-CAP,S 0.1-25 K B C-CAP,S 0.015-50 B<51 K <s>,51</s>			0A0K/H10 055 10
C30	87-010-198-080	EZ <s: CAP, CHIP 0.022&lt;51 U<s>,53</s></s: 			
C31	87-010-213-080	U <l>,52 U<w: C-CAP,S 0.015-50 B&lt;51 K<s>,51</s></w: </l>	C902	87-010-192-080 87-010-192-080	C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F
C31	87-010-198-080	EZ <s: CAP, CHIP 0.022&lt;51 U<s>,53 U<l>,52 U<w:< td=""><td>C904</td><td>87-010-192-080 87-010-192-080 8A-CD9-627-010</td><td>C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F CONN ASSY,3P PWR</td></w:<></l></s></s: 	C904	87-010-192-080 87-010-192-080 8A-CD9-627-010	C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F CONN ASSY,3P PWR
C33 C34	87-012-358-080 87-012-358-080	C-CAP,S 0.47-10 F Z C-CAP,S 0.47-10 F Z	<u></u> ↑PR901	87-A90-092-080	PROTECTOR, 2.5A 491<51 K <s>,51 EZ<s>&gt;</s></s>
C35 C36 C37	87-012-338-080 87-015-819-080 87-010-263-080 87-010-197-080	CAPACITOR, 0.01 CAP, ELECT 100-10V CAP, CHIP 0.01 DM	SP901 SP902	87-CD6-213-010 87-CD6-213-010	SPR-C,BATT (-) SPR-C,BATT (-)
C38	87-010-374-080	CAP, ELECT 47-10V	BATT2 C.E	3	
C39 C40 C41 C42	87-010-404-080 87-010-197-080 87-012-349-080 87-012-349-080	CAP, ELECT 4.7-50V CAP, CHIP 0.01 DM C-CAP,S 1000P-50 CH C-CAP,S 1000P-50 CH	SP903 SP904	87-CD6-213-010 87-CD6-213-010	SPR-C,BATT (-) SPR-C,BATT (-)



· Regarding connectors, they are not stocked as they are not the initial order items.

The connectors are available after they are supplied from connector manufacturers upon the order is received.



チップ抵抗 Chip resistor

容量	種類	許容誤差 記号 寸法/Dimen				(mm)		抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	L J t	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	j **	3.2	1.6	0.55	128

### TRANSISTOR ILLUSTRATION



ECB 2SC1815

2SC2001





ECB

2SA933 2SC1740 DTC114TS

2SA1318

2SA1162

2SC2712 2SC2714 DTA114YK





DTC124XS

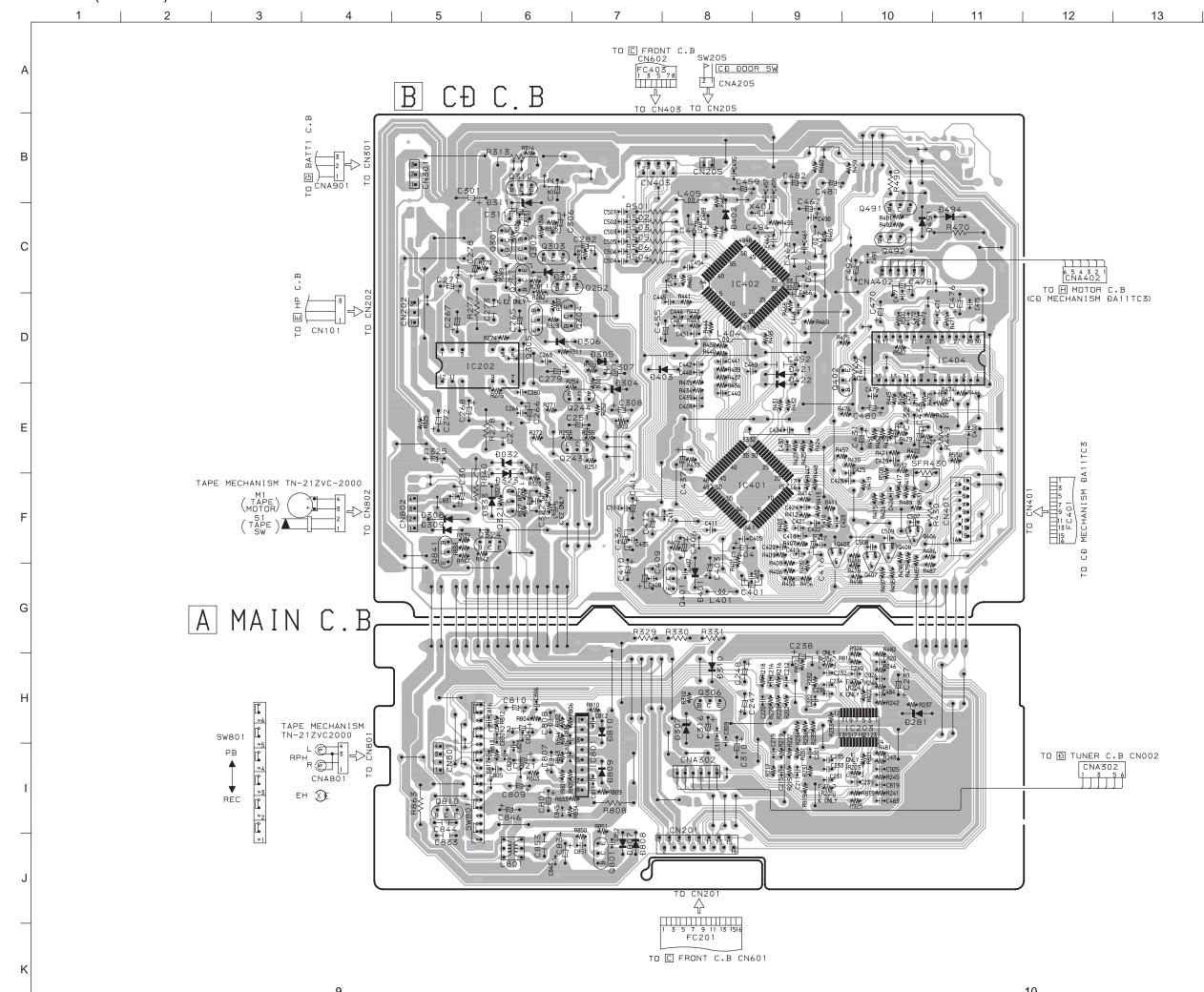
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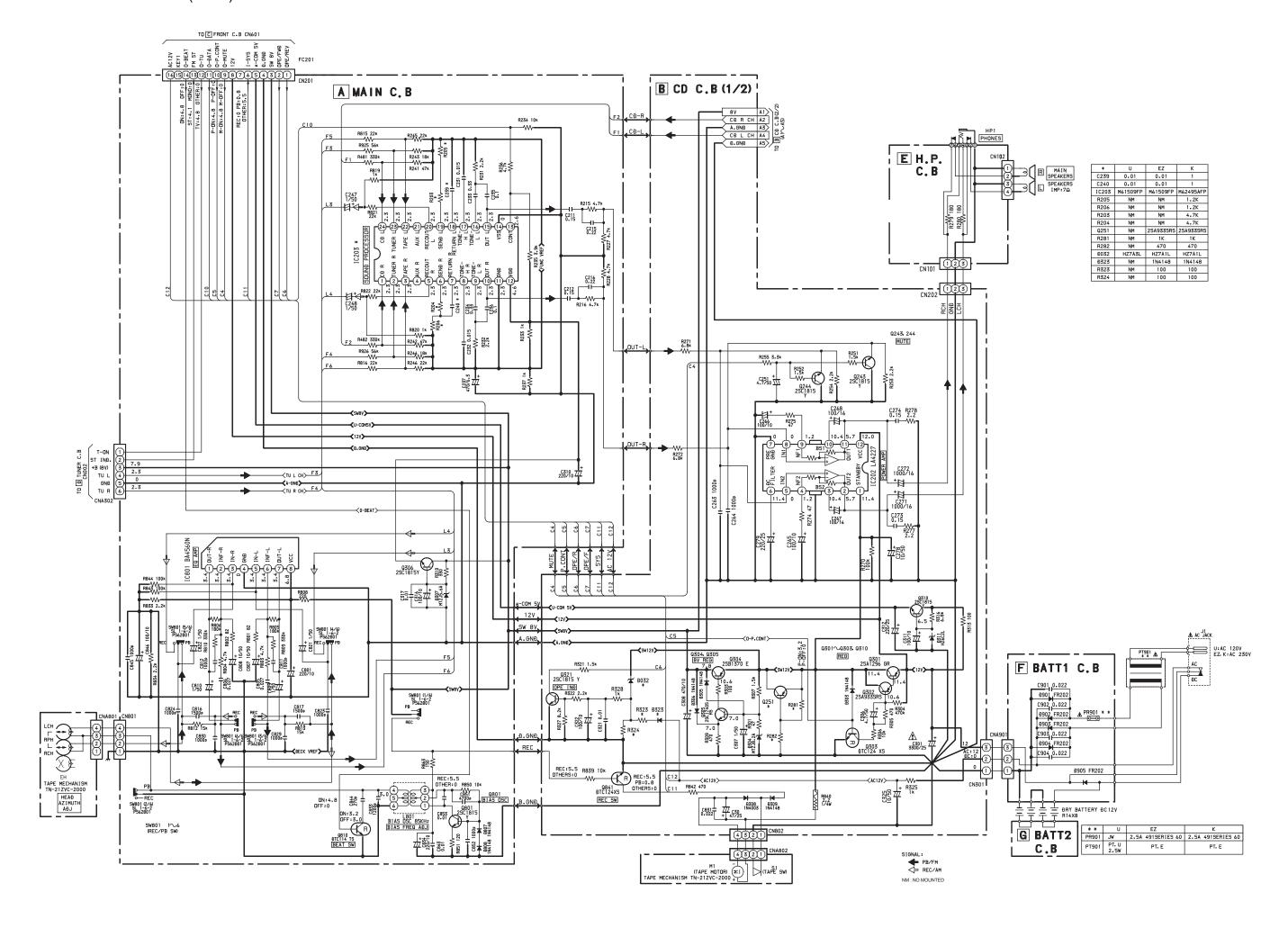
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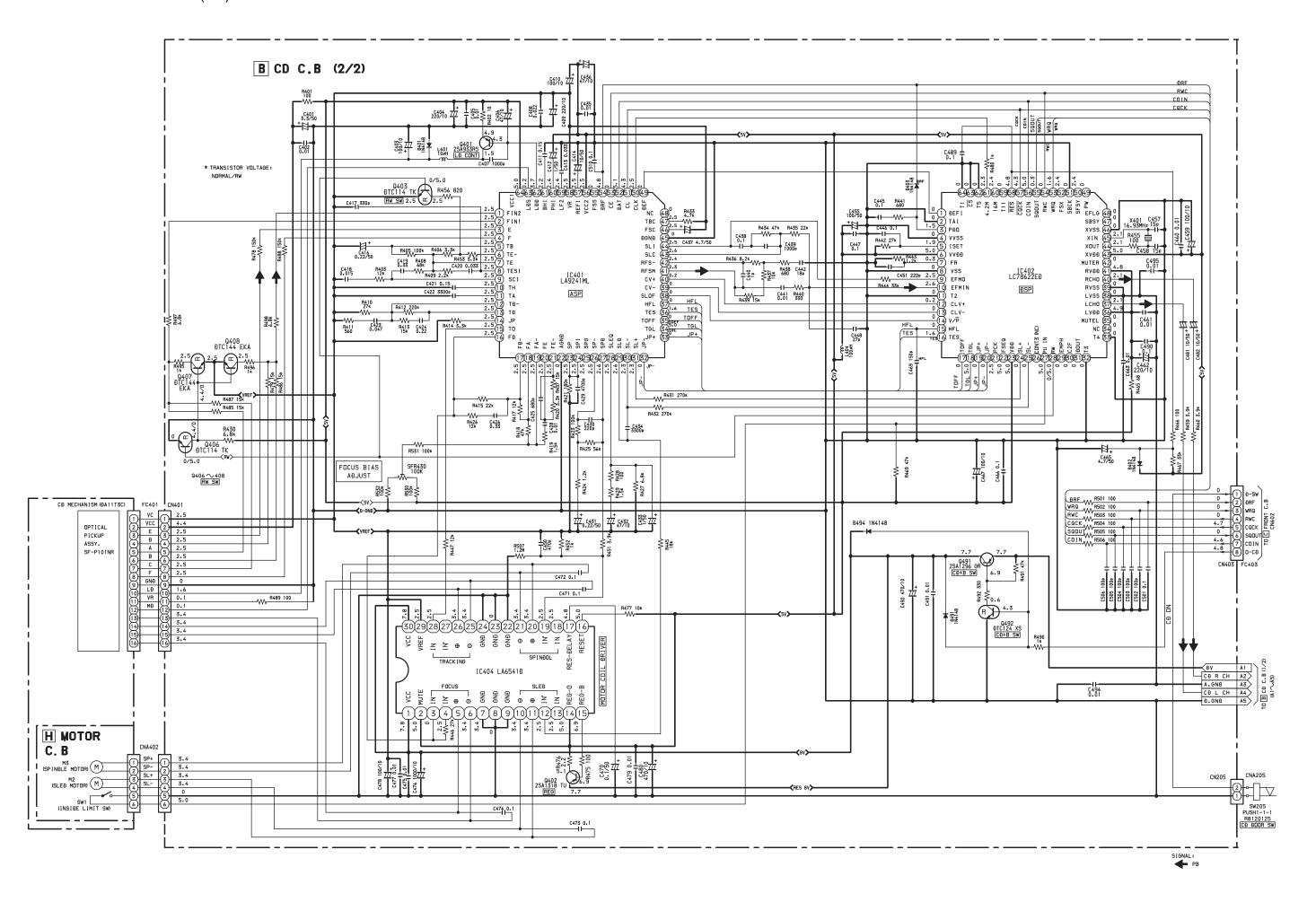
DTC114TK DTC114YK DTC124XK DTC144TK

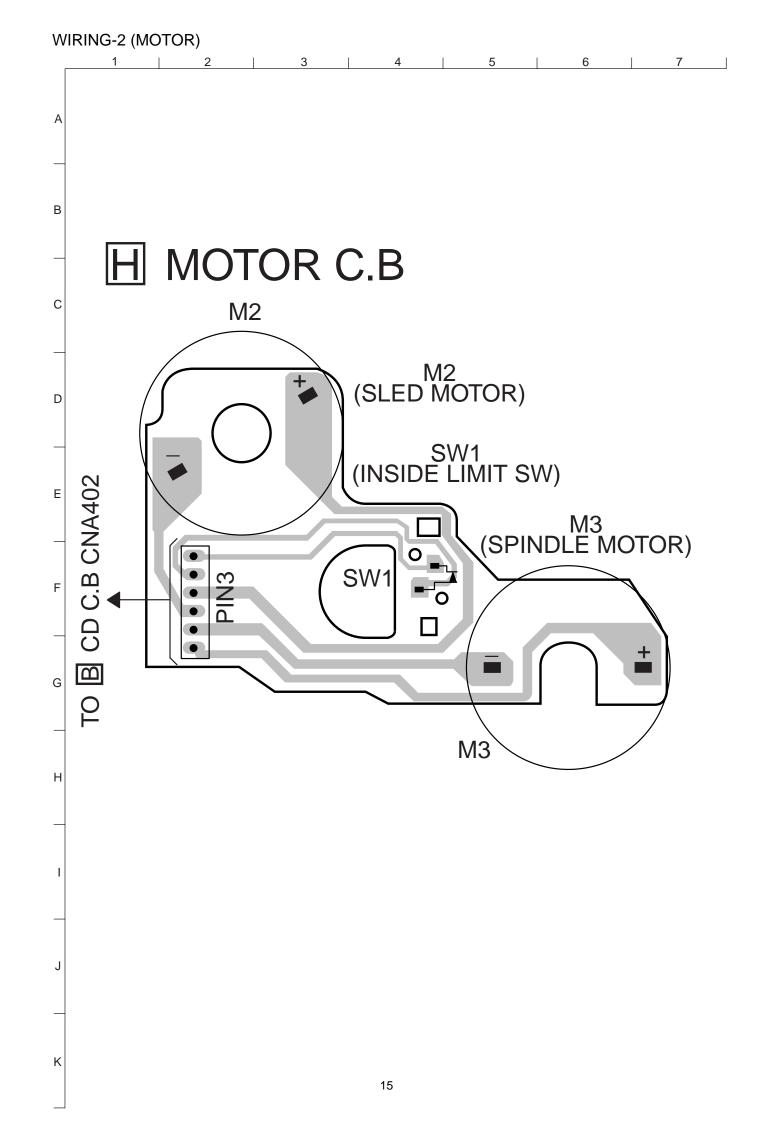
# VOL 1 M MONO STEREO DOT-L DOT-C DOT-R

No	СОМ1	COM2	СОМЗ
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2 i
7	3f	3e	RP
8	3a	3g	3d
9	3b	3с	1
10	4f	4e	М
11	4a	4g	4d
12	4b	4c	Х
13	COL	DOT-L	MONO
14	5f	5e	DOT-R
15	5a	5g	5d
16	5b	5c	DOT-C
17	6f	6e	STEREC
18	6a	6g	6d
19	6b	6c	7
20	TV	MHz	kHz
21	COM1		
22		COM2	
23			СОМЗ

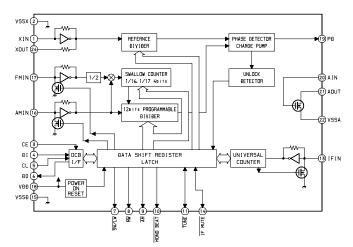




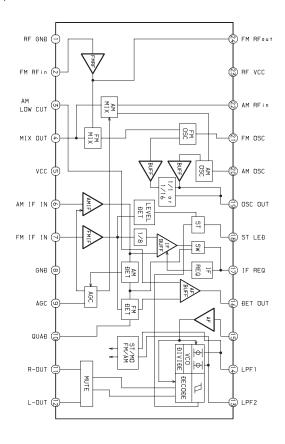




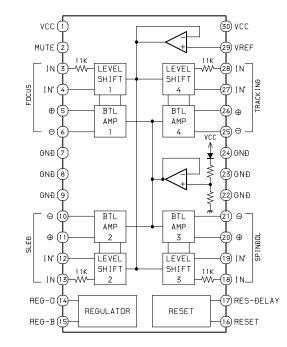
# IC BLOCK DIAGRAM IC, LC7212M



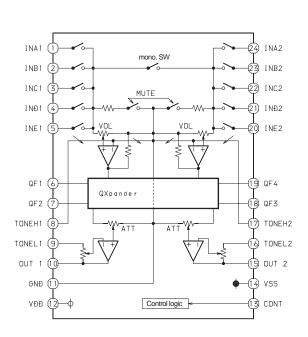
### IC, TA2149N



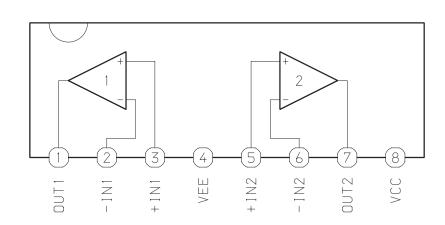
### IC, LA6541D

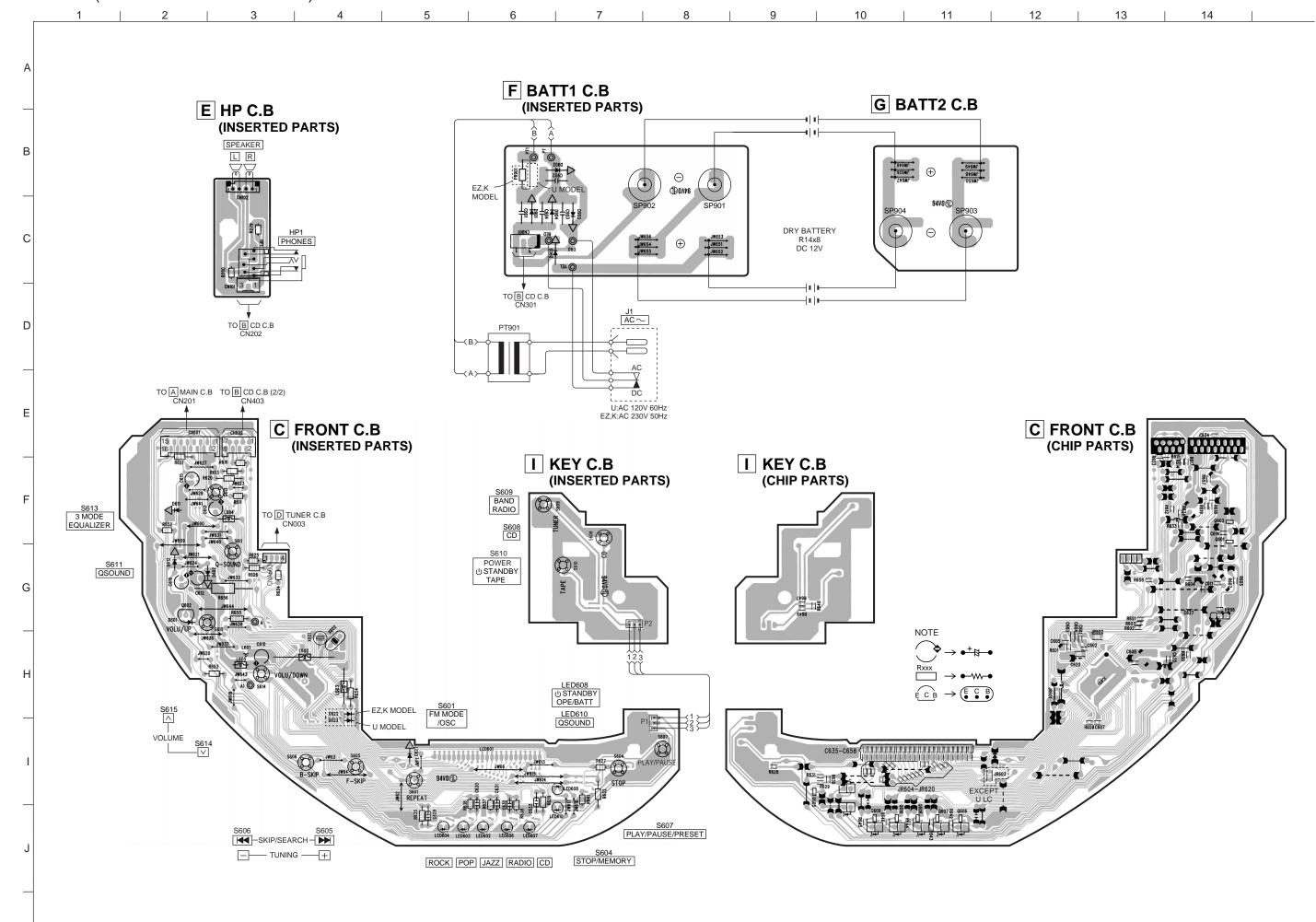


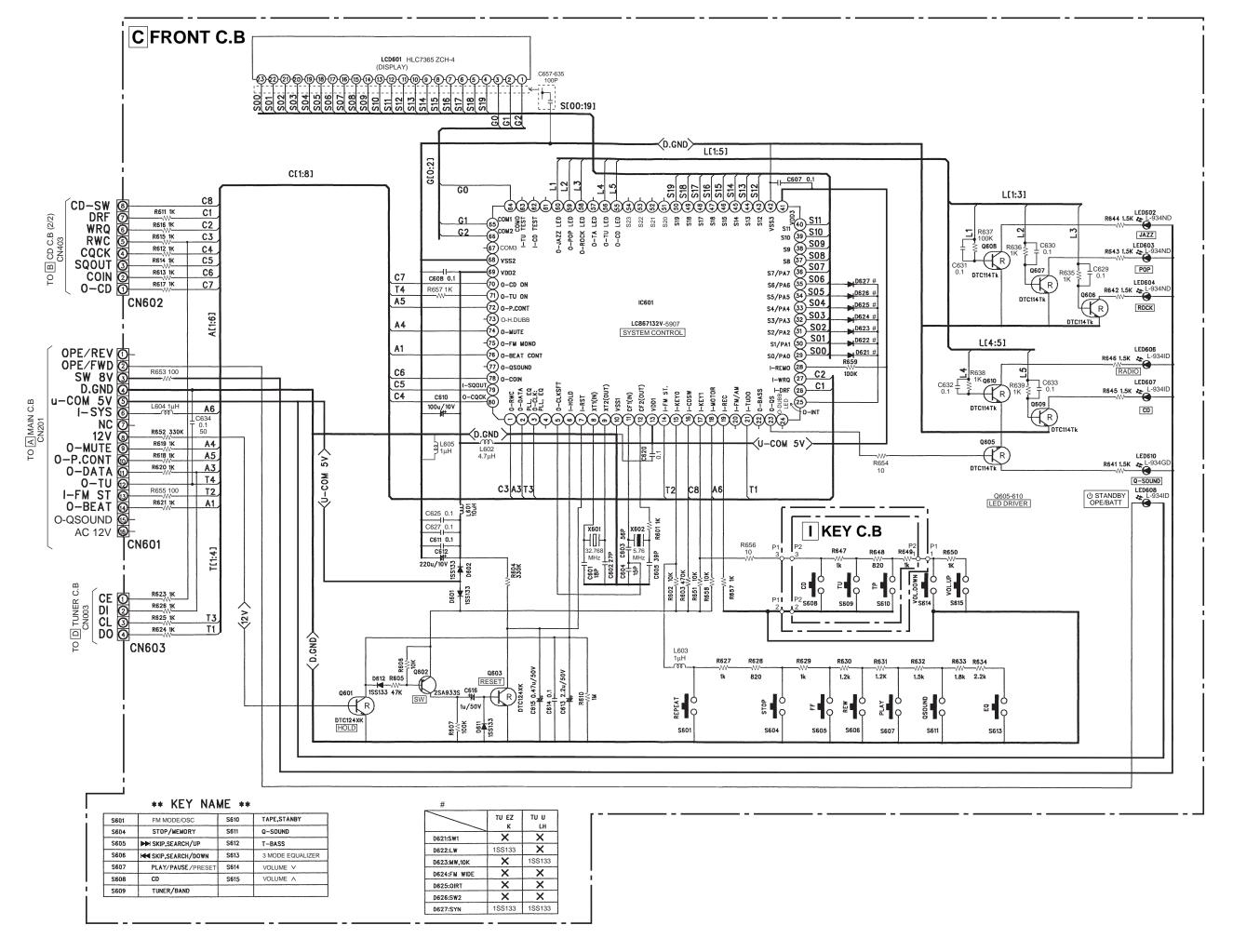
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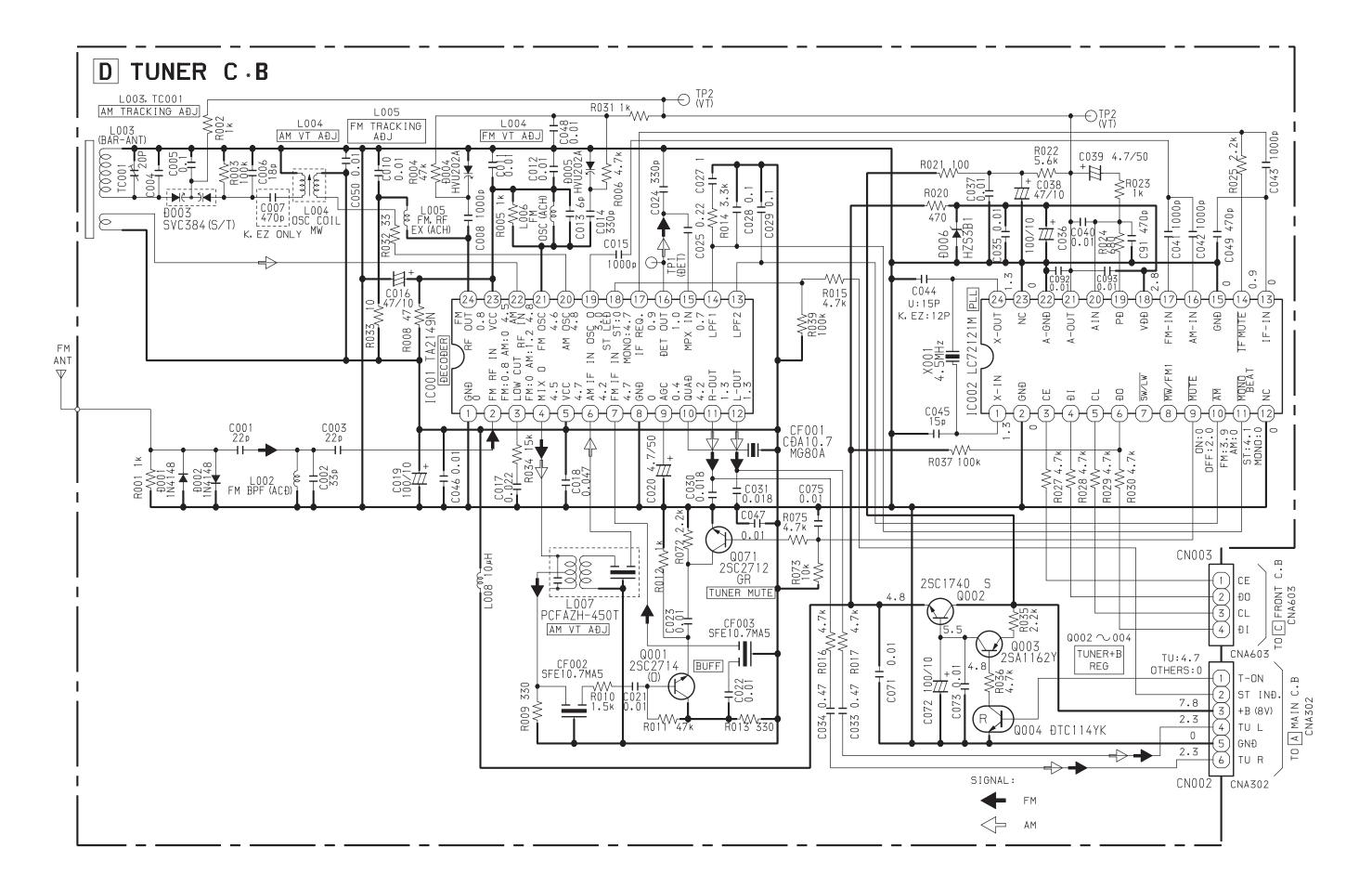


IC, BA4560N









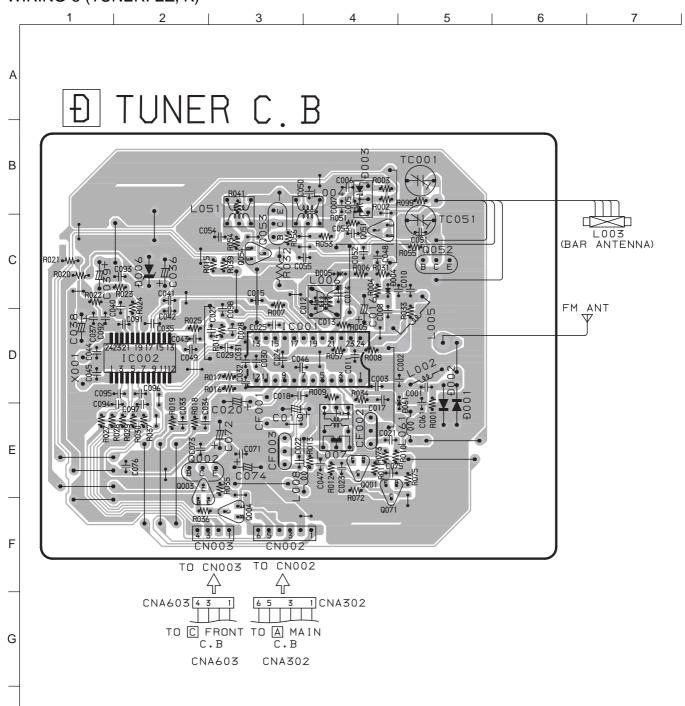
Α TUNER C. B В LOO3 (MW ANTENNA) С FM ANT D Е E CN002\*\* F TO CN003 TO CN002 CNA603 1 45 6 CNA302 TO C FRONT C.B G TO A MAIN C.B

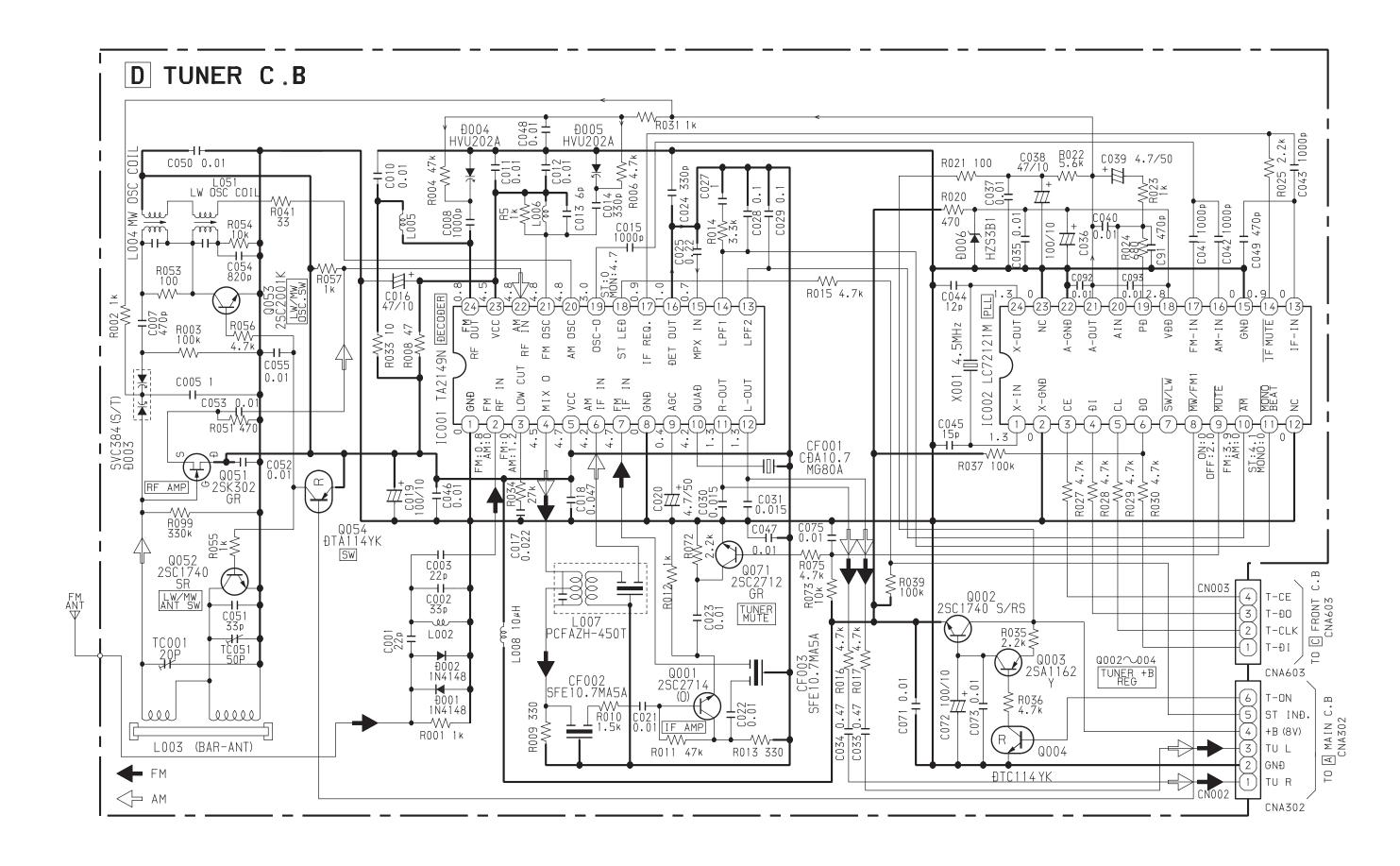
CNA302

CNA603

Н

Κ





## D TUNER C.B 567 L003 (MW BAR ANT) TC001 (2)(1)(2)(3)L051 (3) TP2(VT) TC051 L005 C039 ●TP1(DET) IC001 (4 IC002 L007 (8)(9)B CD C.B IC404 SFR430 CN401 A MAIN C.B IC801 CN80 L801 (12) E H.P. C.B CASSETTE DECK MOTOR CASSETTE DECK HEAD J251 PHONES (10)(11) (10)

27

### < TUNER SECTION >

1. FM VT Adjustment

Settings: • Test point: TP2 (VT)

• Adjustment location: L006

Method: Set to FM 108.0MHz and adjust L006 so that the

test point voltage becomes  $6.0V \pm 0.05V$ .

2. MW VT Adjustment

Settings: • Test point: TP2 (VT)

• Adjustment location : L004

Method: Set to MW 1000kHz (U), MW 999kHz (EZ,K)

and adjust L004 so that the test point voltage

becomes  $3.75V \pm 0.05V$ .

3. LW VT Adjustment <EZ,K>

Settings: • Test point: TP2 (VT)

• Adjustment location: L051

Method: Set to LW 288kHz and adjust L051 so that the

test point voltage becomes  $4.5V \pm 0.05V$ .

4. FM Tracking Adjustment

..98.0MHz L005.....

5. MW Tracking Adjustment <U>

L003.... ..600kHz TC001..... ....1400kHz

6. MW Tracking Adjustment <EZ,K>

TC001......1404kHz

7. LW Tracking Adjustment <EZ,K>

L003..... ..153kHz TC051..... ..288kHz

8. AM IF Adjustment <U>

Settings: • Test point: TP1(DET)

• Adjustment location: L007

Method: Adjust L007 so that the output level at 1400kHz

becomes maximum.

9. AM IF Adjustment <EZ,K>

Settings: • Test point: TP1 (DET)

• Adjustment location: L007

Method: Adjust L007 so that the output level at 1404kHz

becomes maximum.

### < DECK SECTION >

10. Tape Speed Adjustment

Settings: • Test tape: TTA-100

• Test point : J251 (PHONES jack)

· Adjustment location : SFR of deck motor

Method: Play back the test tape and adjust SFR so that the frequency counter reads  $3000Hz \pm 30Hz$ .

11. Head Azimuth Adjustment

Settings: • Test tape: TTA-320

• Test point : J251 (PHONES jack)

• Adjustment location : Azimuth adjustment

screw

Method: Play back the 8kHz signal of the test tape and adjust screw so that the output becomes

maximum.

12. Bias frequncy Adjustment

L801..... ..85kHz±0.5kHz

### < CD SECTION >

13. FE Balance Adjustment

Settings: • Test point: IC401 PIN58 (VR), IC401 PIN 20

• Adjustment location : SFR430

Playback the disc and adjust SFR430 so that the

test point voltage becomes 0V.

### PRACTICAL SERVICE FIGURE

### < TUNER SECTION >

### < FM SECTION >

Sensitivity: Less than 18dB (87.5MHz) Less than 18dB (98.0MHz) (THD 3%) Less than 18dB (108.0MHz) Signal to Noise Ratio: More than 66dB (at 98.0MHz)

(Input 60dB) (EXCEPT U)

More than 58dB (at 98.0MHz)

Less than 3% (at 98.0MHz)

(Input 60dB) 10.7MHz Intermediate frequency:

Stereo separation: More than 20dB

### < AM SECTION >

Sensitivity: Less than 48dB (at 600kHz) (S/N 10dB) Less than 46dB (at 1000kHz) Less than 44dB (at 1400kHz)

Distortion: Less than 3%

(Input 74dB)

Distortion:

Intermediate frequency: 450kHz

< LW SECTION >

Less than 60dB (at 153kHz) Sensitivity: (S/N 10dB) Less than 56dB (at 198kHz) Less than 52dB (at 288kHz)

Distortion: Less than 3%

(Input 80dB)

Distortion:

450kHz Intermediate frequency:

### < CASSETTE SECTION >

Tape speed: 3000Hz±60Hz

Wow & flutter: Less than 0.3% (JIS RMS) Take-up torque: 30-60g-cm (FWD) 55-140g-cm FF torque: Rew torque: 55-140g-cm More than 35dB S/N ratio:

Less than 3.0% (PB)

Less than 1mV Noise (PB): (AC/DC, MIN)

Erasing Ratio (W/FILTER): More than 45dB

# IC DESCRIPTION IC, LA9241ML

Pin No.	Pin Name	I/O	Description	
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding	
			with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin	
2	FIN1	I	Pin to which external pickup photo diode is connected.	
3	Е	I	Pin to which external pickup photo diode is connected. TE signal is created by	
-			subtracting from the F pin signal.	
4	F	I	Pin to which external pickup photo diode is connected.	
5	TB	I	DC component of the TE signal is input.	
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE	
			pin.	
7	TE	О	TE signal output pin.	
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-	
Ü	1151		pass filter then input.	
9	SCI	I	Shock detection signal input pin.	
10	TH	I	Tracking gain time constant setting pin.	
11	TA	О	TA amplifier output pin.	
12	TD-	I	Pin to which external tracking phase compensation constants are connected between	
12	TD-	1	the TD and VR pins.	
13	TD	I	Tracking phase compensation setting pin.	
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.	
15	TO	О	Tracking control signal output pin.	
16	FD	О	Focusing control signal output pin.	
17	ED	т	Pin to which external focusing phase compensation constants are connected between	
17	FD-	I	the FD and FA pins.	
10	EA	_	Pin to which external focusing phase compensation constants are connected between	
18	FA	I	the FD- and FA- pins.	
19	FA-	T .	Pin to which external focusing phase compensation constants are connected between	
19	ra-	I	the FA and FE pins.	
20	FE	О	FE signal output pin.	
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.	
22	AGND	_	Analog signal GND.	
23	SP	О	Signal ended output of the CV+and CV- pin input signal.	
24	SPI	I	Spndle amp input.	
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.	
2.1	9.5	_	Pin to which external spindle phase compensation constants are connected together	
26	SP-	I	with SPD pin.	
27	SPD	О	Spindle control signal output pin.	
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.	
29	SLD	О	Sled control signal output pin.	
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.	
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.	
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.	
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.	

Pin No.	Pin Name	I/O	Description
36	TES	О	Pin from which TES signal is output to DSP.
37	HFL	0	"High Frequency Level" is used to judge whether the main beam position is on top of
37	III L		bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	О	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	0	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	_	Digital system GND.
46	FSC	О	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	_	No connection.
49	DEF	О	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	О	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (± search/+ search) select pin.
56	VCC2	_	Servo system and digital system Vcc pin.
57	REFI	_	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	О	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	О	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1		RF system Vcc pin.

## IC, LC78622ED

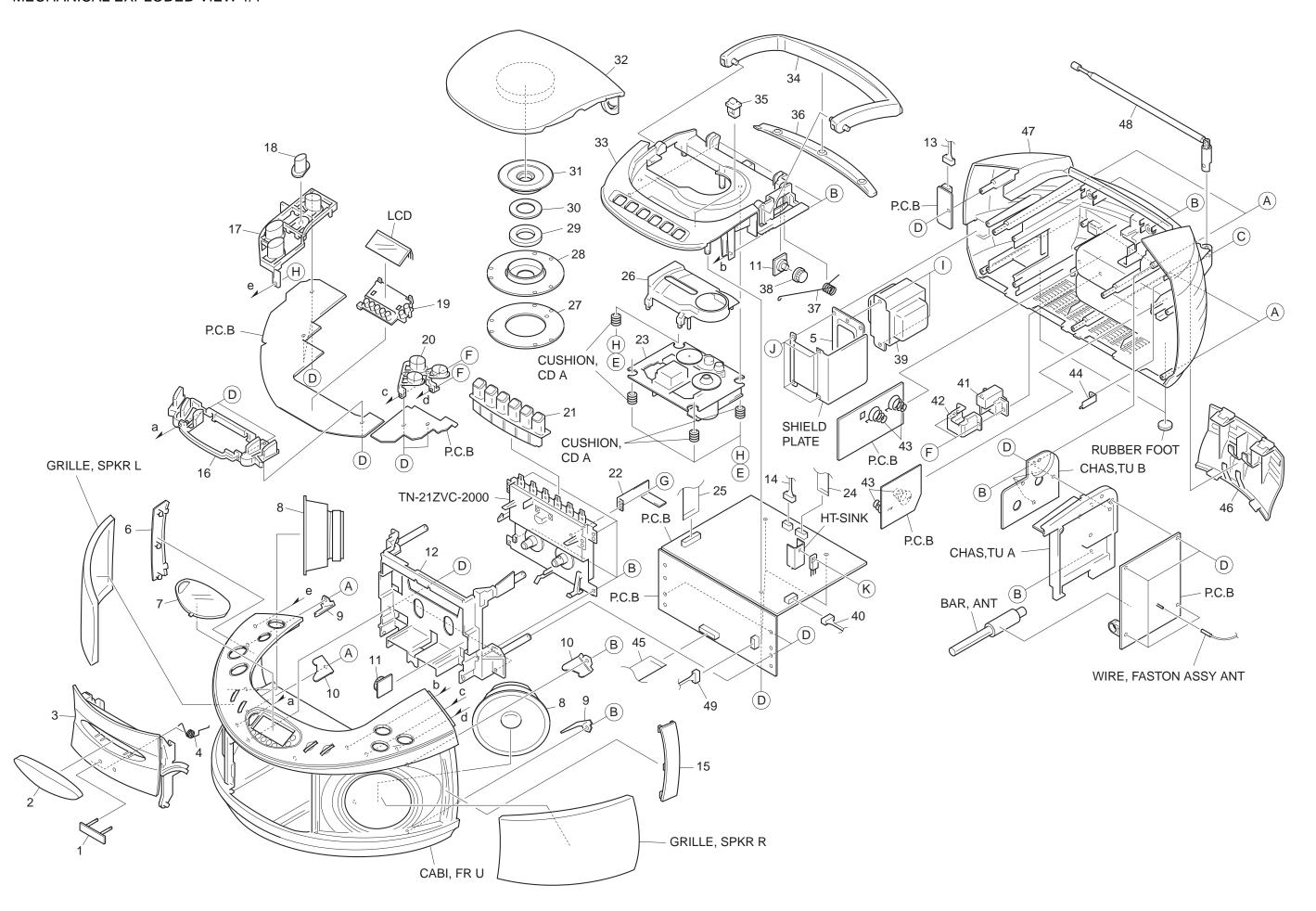
Pin No.	Pin Name	I/O			Description		
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).				
2	TAI	I		Test signal input pin with built-in pull-down resistor. Be sure to connect to			
3	PDO	О		Phase comparator output pin to control external VCO.  GND pin for built-in VCO. Be sure to connect to 0V.			
4	VVSS	_	For PLL.				
5	ISET	I	FOI FLL.	Pin to which	external resistor adjusting the PD0 output current.		
6	VVDD	_		Power supply	pin for built-in VCO.		
7	FR	I		Pin for VCO	frequency range adjustment.		
8	VSS	_	Digital syst	em GND. Be	sure to connect to 0V.		
9	EFMO	О	For slice le	val aantral	EFM signal output pin.		
10	EFMIN	I	roi siice ie	vei controi.	EFM signal input pin.		
11	T2	I	Test signal	input pin with	built-in pull-down resistor. Be sure to connect to 0V.		
12, 13	CLV+, CLK-	О	Disc motor	control output	. Three level output is possible using command.		
14	V/P	О		o or phase con	trol automatic selection monitoring output pin. Rough servo		
15	HFL	I			pin. Schmidt input.		
16	TES	I			tt pin. Schmidt input.		
17	TOFF	0			. p.m. Svimat inpati		
18	TGL	0	Tracking OFF output pin.  Tracking gain selection output pin. Gain boost at L.				
19, 20	JP+, JP-	0	Tracking gain selection output pin. Gain boost at L.  Track jump control signal output pin. Three level output is possible using command.				
21	PCK	0		EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.			
21	Ten		Sync signal detection output pin. H when the sync signal which is detected from EFM				
22	FSEQ	О	signal and thesync signal which is internally generated agree.				
23	VDD	_	Digital system power supply pin.				
24	SL+	О	Moves the	sled to outer ci	rcumference.		
25	SL-	О	Moves the	sled to inner ci	rcumference.		
26	CONT3 (NC)	_	Not connec	ted.			
27	PUIN	I	CD pickup	inner switch de	etection.		
28	RW	О	Read, wrigh	ht signal.			
29	EMPH	О	De-emphas	is monitor outp	out pin. De-emphasis disc is being played back at H.		
30	C2F	О	C2 flag out	put pin.			
31	DOUT	О	DIGITAL (	OUT output pir	n. (EIAJ format).		
32, 33	T3, T4	I	Test signal	input pin with	built-in pull-down resistor. Be sure to connect to 0V.		
34	N.C.	_	Not used. S	Set the pin to o	pen.		
35	MUTEL	О			L-channel mute output pin.		
36	LVDD	_	L-channel 1	L bit DAC	L-channel power supply pin.		
37	LCHO	О	L-channel	I-UII DAC.	L-channel output pin.		
38	LVSS	_			L-channel GND. Be sure to connect to 0V.		
39	RVSS				R-channel GND. Be sure to connect to 0V.		
40	RCHO	О	D obomes!	1 bit DAC	R-channel output pin.		
41	RVDD	<u> </u>	R-channel 1	I-DILDAC.	R-channel power supply pin.		
42	MUTER	О		R-channel mute output pin.			

Pin No.	Pin Name	I/O	Description		
43	XVDD	_	Crystal oscillator power supply pin.		
44	XOUT	О	Pin to which external 16.9344 MHz crystal oscillator is connected.		
45	XIN	I	Thi to which external 10.7544 WHIZ Crystal oscillator is connected.		
46	XVSS	_	Crystal oscillator GND pin. Be sure to connect to 0V.		
47	SBSY	О	Subcode block sync signal output pin.		
48	EFLG	О	C1, C2, single and dual correction monitoring pin.		
49	PW	О	Subcode P, Q, R, S, T, U and W output pin.		
50	SFSY	О	Subcode frame sync signal output pin. Falls down when subcode enters standby.		
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not		
31	SBCK	1	in use.)		
52	ECV	FSX	0	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of	
32	rsa		crystal oscillator.		
53	WRQ	О	Subcode Q output standby output pin.		
54	RWC	I	Read/write control input pin. Schmidt input.		
55	SQOUT	О	Subcode Q output pin.		
56	COIN	I	Command input pin from microprocessor.		
57	CQCK	I	Command input read clock or subcode read input clock from SQOUT pin		
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.		
59	T11	О	Test signal output pin. Use this pin as open (normally L output).		
60	16M	О	16.9344 MHz output pin.		
61	4.2M	О	4.2336 MHz output pin.		
62	Т5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.		
(2)	- CC	T .	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V		
63	CS	I	while it is not controlling.		
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.		

## IC, LC867132V-5P07

Pin No.	Pin Name	I/O	Description
1	O-RMC/CE	0	CD read/write control output and TU CE.
2	O-DATA	О	Data output to M62495FP.
3	O-CLK	О	Output CLK to tuner PLL.(Not connected)
4	_	_	Not Connected.
5	O-CLK SFT	О	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	RST	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to 22.769VII7 amostal application
9	XT2 (OUT)	О	Connected to 32.768KHZ crystal oscillator.
10	VSS1	_	GND.
11	CF1 (IN)	I	C . LL CMIZO : E'll
12	CF2 (OUT)	О	Connected to 6MHZ Ceramic Filter.
13	VDD1	_	Power supply for microcomputer (+5V).
14	I-ST IND	I	FM STEREO status input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input.
20	I-FM/AM	I	FM, AM status input. (Not connected)
21	I-TU DO	I	Data input from tuner PLL.(Not connected)
22	O-BASS LED	О	BASS LED ON/OFF control output.
23	O-QS LED	О	Q-Sound LED ON/OFF control output.
24	O-DUBB LED	О	LED control output used for high-speed dubbing.
25	O-INT	О	INT DIODE MATRIX detection output.(Not connected)
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REMO	I	Remote control input.
29	S0/PA0	О	LCD segment output.
30	S1/PA1	О	LCD segment output.
31	S2/PA2	О	LCD segment output.
32	S3/PA3	0	LCD segment output.
33	S4/PA4	О	LCD segment output.
34	S5/PA5	О	LCD segment output.
35	S6/PA6	0	LCD segment output.
36	S7/PA7	0	
37-40	S8~S11	0	LCD segment output.
41	VDD3		Power supply for microcomputer (+5V).
42	VSS3	+_	GND.
43, 44	S12, S13	0	LCD segment output.
45-50	S12, S13	0	LCD segment output.
TD-00	J17- J17		200 segment output.

Pin No.	Pin Name	I/O	Description
51-54	S20- S23	_	Not connected.
55	O-CD LED	О	LED ON/OFF control output for CD functions.
56	O-TU LED	О	LED ON/OFF control output for TU functions.
57	O-TA LED	О	LED ON/OFF control output for TAPE functions. (Not Connected)
58	O-ROCK LED	О	LED ON/OFF control output for ROCK.
59	O-POP LED	О	LED ON/OFF control output for POP.
60	O-JAZZ LED	О	LED ON/OFF control output for JAZZ.
61	_	_	Not connected.
62	I-CD TEST	_	Not connected.
63	I-TU TEST	_	Not connected.
64-66	COM0-COM2	О	LCD common output.
67	_	_	Not connected.
68	VSS2	_	GND.
69	VDD2	_	Power supply for microcomputer (+5V).
70	O-CD ON	О	CD PWR control output.
71	O-TU ON	О	TU PWR control output.
72	O-P.CONT	О	Power supply control output.
73	O-H.DUBB	О	Dubbing speed control output.
74	O-MUTE	О	Main mute output.
75	O-MO/ST	О	FM mono/stereo output.
76	O-BEAT CONT	О	BEAT switch over output.
77	O-QSOUND	О	Q-Sound ON/OFF output.
78	O-COIN	О	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	О	CLK for CD commands/sub-codes.



### MECHANICAL PARTS LIST 1/1

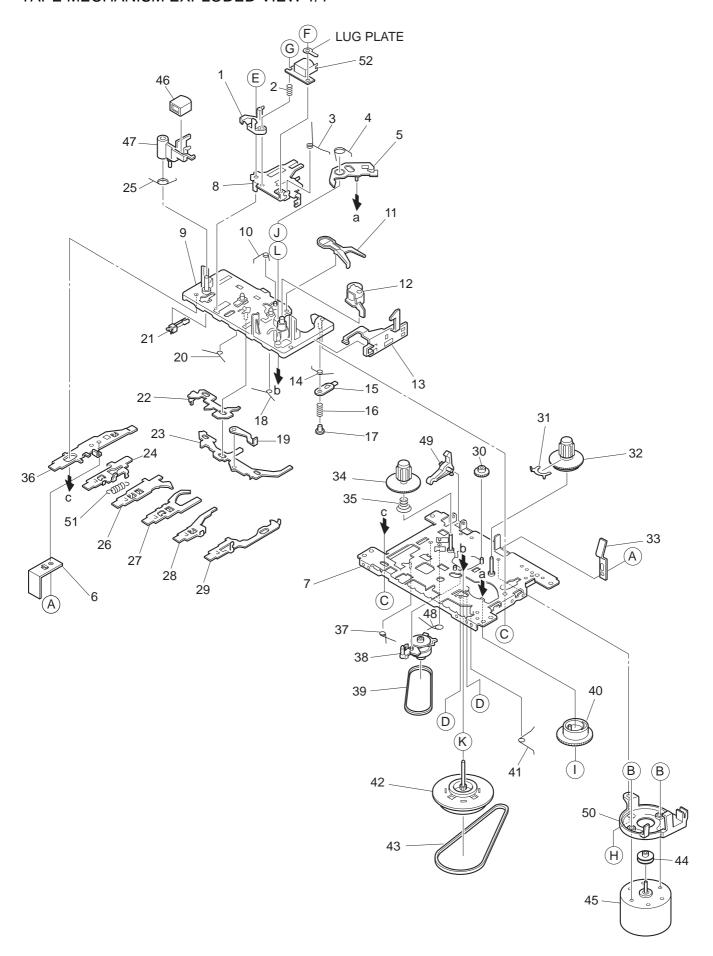
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO		CANRI DESCRIPTION NO.	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-CL7-107-010	BADGE, AIWA SILVER	32	8A-CH8-037-		BOX,CD (L)<53 U <l>&gt;</l>
2	8A-CD8-007-010	WINDOW, CASS <except 53="" u<l="">,52</except>	32	8A-CH8-018-	-010	BOX,CD (W)<52 U <w>&gt;</w>
_		U <w>&gt;</w>		8A-CD8-027-		BOX,CD EX <except 53="" u<l="">,52 U<w>&gt;</w></except>
	8A-CH8-040-010	WINDOW, CASS (L) <53 U <l>&gt;</l>		8A-CH8-038-		CHAS,CD (L)<53 U <l>&gt;</l>
	8A-CH8-021-010	WINDOW, CASS (W) < 52 U <w>&gt;</w>	33	8A-CH8-019-	-010	CHAS,CD (W)<52 U <w>&gt;</w>
3	8A-CD8-006-010	BOX, CASS < EXCEPT 53 U <l>,52 U<w>&gt;</w></l>	33	8A-CD8-028-	.010	CHAS,CD EX <except 53="" u<l="">,52</except>
3	8A-CH8-039-010	BOX,CASS (L)<53 U <l>&gt;</l>	33	0A-CD0-020	010	U <w>&gt;</w>
	8A-CH8-020-010	BOX, CASS (W) < 52 U < W>>	34	8A-CD8-008-	-010	HANDL,FR <except 53="" u<l="">,52 U<w>&gt;</w></except>
4	8A-CD8-207-010	SPR-T, CASS	34	8A-CH8-041-	-010	HANDL,FR (L)<53 U <l>&gt;</l>
	8A-CD8-209-010	HLDR, TRANS		8A-CH8-022-		HANDL,FR (W)<52 U <w>&gt;</w>
6	8A-CD8-018-010	PANEL,FR L <except 53="" u<l="">,52</except>	35	87-036-389-	-010	SW, PUSH LOCK
		U <w>&gt;</w>	2.6	02 020 000	010	
6	07 0110 040 010	PANEL,FR L (L)<53 U <l>&gt;</l>	36	8A-CD8-009-	-010	HANDL, REAR <except 53="" u<l="">,52 U<w>&gt;</w></except>
	8A-CH8-048-010 8A-CH8-029-010		36	8A-CH8-023-	.010	HANDL, REAR (W)<52 U <w>&gt;</w>
	8A-CH8-014-010	PANEL, FR L (W) < 52 U < W >> WINDOW, LCD EX < 51 K < S > , 51 EZ < S >> WINDOW, LCD U < 51 U < S > , 53 U < L > , 52		8A-CD8-208-		SPR-T,CD
	8A-CH8-003-010	WINDOW, LCD U<51 U <s>,53 U<l>,52</l></s>		84-CD5-216-		BRACKET
		U <w>&gt;</w>		8A-CD8-603-		PT,E 2.5W<51 K <s>,51 EZ<s>&gt;</s></s>
8	88-CD8-622-010	SPKR,F 77 7OHM 3W				
			<u>1</u> 39	8A-CD8-602-	010	PT,U 2.5W<51 U <s>,53 U<l>,52</l></s>
	8A-CD8-210-010	HLDR,SPKR A	4.0	03 000 600	010	U <w>&gt;</w>
	8A-CD8-211-010	HLDR,SPKR B		8A-CD9-630-		CONN ASSY, 4P RPH
	84-CD5-215-010 8A-CD8-021-010	GEAR CHAS,CASS <except 53="" u<l="">,52 U<w>&gt;</w></except>		87-A60-178- 87-A60-177-		JACK, AC E W/SW<51 K <s>,51 EZ<s>&gt; JACK, AC U W/SW&lt;51 U<s>,53 U<l>,52</l></s></s></s>
	8A-CH8-047-010	CHAS, CASS (L) <53 U <l>&gt;</l>	41	0/-A0U-1//-	-010	U <w>&gt;</w>
12	0A CHO 017 010	CHAO, CADO (1) (33 O(1))	42	87-A90-086-	-010	COVER, AC-SOCKET
12	8A-CH8-031-010	CHAS, CASS (W) < 52 U < W>>				,
13	8A-CD9-633-010	CONN ASSY, 4P SP	43	88-CD8-209-	-010	SPR-C,BATT
	8A-CD9-626-010	CONN ASSY, 2P DOOR		8A-CD8-212-		HLDR, ANT
15	8A-CD8-022-010	PANEL, FR R <except 53="" u<l="">,52</except>		8A-CD9-620-		FF-CABLE, 16P FR-MAIN
1 -	07 0110 040 010	U <w>&gt;</w>		8A-CD8-003-		LID, BATT <except 53="" u<l="">,52 U<w>&gt;</w></except>
15	8A-CH8-049-010	PANEL,FR R (L)<53 U <l>&gt;</l>	40	8A-CH8-036-	-010	LID,BATT (L)<53 U <l>&gt;</l>
15	8A-CH8-030-010	PANEL, FR R (W)<52 U <w>&gt;</w>	46	8A-CH8-017-	-010	LID,BATT (W)<52 U <w>&gt;</w>
	8A-CH8-005-010	PANEL,FR R (W)<52 U <w>&gt; KEY,CONTROL CD<except 53="" u<l="">,52</except></w>	47	8A-CH8-002-		CABI, REAR <except 53="" u<l="">,52 U<w>&gt;</w></except>
		U <w>&gt;</w>	47	8A-CH8-035-	-010	CABI, REAR (L)<53 U <l>&gt;</l>
	8A-CH8-046-010	KEY, CONTROL CD (L) <53 U <l>&gt;</l>		8A-CH8-016-		CABI,REAR U (W)<52 U <w>&gt;</w>
	8A-CH8-027-010	KEY, CONTROL CD (W) < 52 U < W >>	48	8Z-CH4-640-	-010	ANT, ROD
17	8A-CD8-014-010	KEY, VOL <except 53="" u<l="">,52 U<w>&gt;</w></except>	40	03 000 631	010	CONN. ACCV. AD. IID. ME
17	8A-CH8-044-010	KEY, VOL (L) < 53 U < L>>	49 A B	8A-CD9-631-	.010	CONN ASSY,4P TP-ME UT2+3-30 W/O CR
	8A-CH8-025-010	KEY, VOL (W) < 52 U < W >>	B	87-641-096-	410	UT1+3-10 GLD
	8A-CD8-017-010	KEY, QSOUND	Č	87-254-097-	410	U+3-12 CR
	8A-CH8-201-010	HLDR, LCD		87-741-095-		UT2+3-8 GLD
20	8A-CH8-004-010	KEY,FUNC <except 53="" u<l="">,52 U<w>&gt;</w></except>				
	0 045 040	KEY, FUNC (L)<53 U <l>&gt;  KEY, FUNC (W)&lt;52 U<w>&gt;  KEY, CASS (L)&lt;53 U<l>&gt;  KEY, CASS (W)&lt;52 U<w>&gt;</w></l></w></l>	E	87-342-074-	-010	UT2+2.6-8
	8A-CH8-045-010	KEY, FUNC (L)<53 U <l>&gt;</l>	F	87-353-076-	-210	VT2+2.6-12
	8A-CH8-026-010	KEY, FUNC (W) < 52 U < W>>	G	87-571-032-	010	VIT+2-3
	8A-CH8-043-010 8A-CH8-024-010	KEY,CASS (L)<53 U <l>&gt; KEY,CASS (W)&lt;52 U<w>&gt;</w></l>	т	07-WA3-233-	410	W,3.3-10-0.8 VT2+3-6 W10SL0T
	8A-CD8-011-010	KEY, CASS SET <except 53="" u<l="">,52</except>	1	07-751-054-	410	V12+3-0 W105L01
	011 020 011 010	U <w>&gt;</w>	J	87-661-097-	410	TAPPING SCREW, VFT1+3-12
			k	87-067-566-	-010	TAPPING SCREW, VFTT+3-6
	8A-CD8-213-010	SPR-P, REC				
	M8-ZZK-E90-070	DA11T3C				
	8A-CD9-622-010	FF-CABLE, 8P CD-FR				
	8A-CD9-621-010 8Z-CDB-169-010	FF-CABLE, 16P CD-RF PANEL,CD SANYO				
40	07-000-103-010	INNEH,CD DAMIO				
27	88-CD9-211-210	RING, CHUCK				
	8Z-CDB-170-010	BASE, CHUCK				
	87-036-368-010	MAGNET				
	84-CT5-209-010	PLATE, MAGNET				
31	8Z-CH4-225-110	HLDR, CHUCK A(S)				

### COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

### TAPE MECHANISM EXPLODED VIEW 1/1

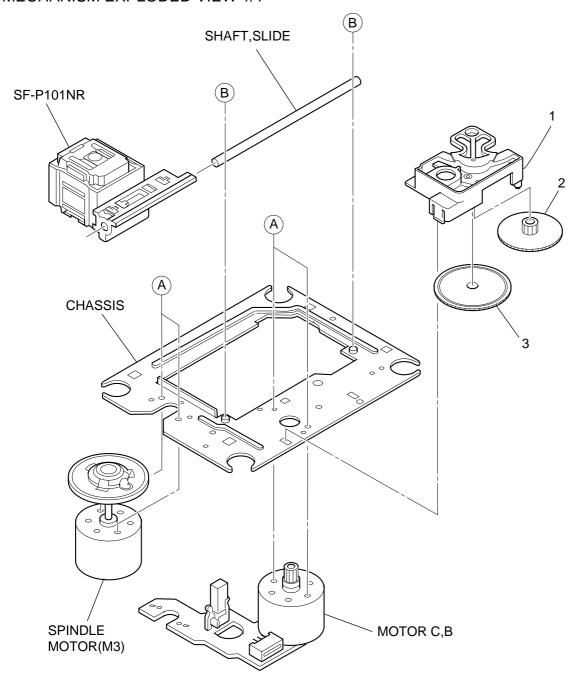


### TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

SI-921-030-040	REF. NO	PART NO.	KANRI NO.	DESCRIPTION			
2 SI-821-030-070 AZIMUTH SPRING 37 S1-921-140-170 P.S.LEVER SPRING 38 S1-921-073-040 RF GLUTCH ASSY 4 S1-921-260-050 GEAR PLATE SPRING 39 S1-921-070-030 RF BELT GLUTCH ASSY 4 S1-921-260-020 GEAR PLATE SPRING 39 S1-921-070-030 RF BELT GLUTCH ASSY 40 S1-921-260-020 CAM GEAR	1	S1-921-030-4A0	O HEAD B	ASE	36	S1-921-140-030	REC BUTTON LEVER
3 S1-921-030-090   PANEL P SPRING   38 S1-921-070-030   RF CLUTCH ASSY   4 S1-921-260-050   GEAR PLATE SPRING   39 S1-921-070-030   RF BELT   RF SELT   STATE   STAT					37	S1-921-140-170	P.S.LEVER SPRING
4 S1-921-260-050 GEAR PLATE SPRING 5 S1-921-260-020 GEAR PLATE ASSY 40 S1-921-260-020 CAM GEAR 6 S1-510-020-020 GEAR PLATE ASSY 40 S1-921-140-160 CAM GEAR 6 S1-510-020-020 REC SPRING PLATE 41 S1-921-140-160 E ACTUATOR SPRING 7 S1-921-030-110 CHASSIS ASSY 42 S1-921-030-210 FLYWHEEL ASSY 8 S1-921-030-110 CHASSIS ASSY 42 S1-921-1030-110 MAIN BELT 10 S1-921-141-80 M CONTROL SPRING 45 S6-002-030-220 MOTOR PULLEY 10 S1-921-141-80 M CONTROL SPRING 45 S6-002-030-220 MOTOR PULLEY 11 S1-921-260-4A0 SENSING LEVER 46 S6-209-100-100 E HEAD PHACH SOLIER ARM ASSY 47 S1-921-030-050 MG ARM 12 S1-921-043-100 EJECT SLIDE LEVER 48 S1-921-140-30 D PONTROL SPRING 49 S1-821-100-690 REC BUTTON LEVER SPRING 15 S1-921-140-150 PAUSE LEVER SPRING 15 S1-921-140-110 PAUSE STOPPER 51 S1-921-140-150 BUTTON LEVER SPRING(B) 18 S1-921-141-300 F RICK LEVER 19 S1-921-141-500 BITTON LEVER SPRING(B) 20 S1-921-141-090 SWITCH ACTUATOR 21 S1-921-140-090 SWITCH ACTUATOR 22 S1-921-140-090 SWITCH ACTUATOR 23 S1-921-140-090 SWITCH ACTUATOR 24 S1-921-140-090 SWITCH ACTUATOR 25 S1-921-140-000 PLSH BUTTON LEVER SPRING 26 S1-921-140-000 PLSH BUTTON LEVER SPRING 27 S1-921-140-000 PLSH BUTTON LEVER SPRING 28 S1-921-140-000 PLSH BUTTON LEVER SPRING 29 S1-921-140-000 PLSH BUTTON LEVER SPRING 30 S1-921-140-000 SWITCH ACTUATOR 31 S1-921-140-000 PLSH BUTTON LEVER SPRING 31 S1-921-100-000 PLSH BUTTON LEVER SPRING 31 S1-921-000-010 PASSER BUTTON LEVER SPRING 31 S1-921-000-010 PASSER BUTTON LEVER SPRING 31 S1-921-000-010 PASSER SPRING 31 S1-921-000-010 SSEEL HUB					38	S1-921-073-040	RF CLUTCH ASSY
5 S1-921-265-020 GEAR PLATE ASSY  40 S1-921-260-020 CAM GEAR  6 S1-510-020-020 REC SPRING PLATE 7 S1-921-015-010 CHASSIS ASSY 81-921-030-110 HEAD PANEL 9 S1-921-030-110 HEAD PANEL 13 S1-921-193-160 BASE ASSY 14 S1-921-120-590 MOTOR FULLEY 10 S1-921-143-160 BASE ASSY 14 S1-921-120-590 MOTOR FULLEY 15 S1-921-143-80 M CONTROL SPRING 15 S1-921-143-80 M CONTROL SPRING 16 S1-921-120-040 M CONTROL SPRING 17 S1-921-00-100 PANEL EVER 18 S1-921-130-010 PINCH ROLLER ARM ASSY 19 S1-921-130-010 PINCH ROLLER ARM ASSY 19 S1-921-140-210 PAUSE LEVER(E) 19 S1-921-140-20 PAUSE LEVER(E) 10 S1-921-140-120 PAUSE LEVER SPRING 17 S1-921-140-110 PAUSE STOPPER 18 S1-921-140-110 PAUSE STOPPER 19 S1-921-140-110 BUTTON LEVER SPRING(B) 18 S1-921-140-110 PAUSE STOPPER 20 S1-921-140-090 SWITCH ACTUATOR 21 S6-401-011-490 LEAF SW MSW-1541T 22 S1-921-140-090 SWITCH ACTUATOR 23 S1-921-140-090 SWITCH ACTUATOR 24 S1-921-140-090 SWITCH ACTUATOR 25 S1-921-140-090 SWITCH ACTUATOR 26 S1-921-140-090 SWITCH ACTUATOR 27 S1-921-140-090 PUSH BUTTON LEVER SPRING 28 S1-921-120-020 MG ARM SPRING 29 S1-921-140-090 PUSH BUTTON LEVER SPRING 20 S1-921-140-090 SWITCH ACTUATOR 26 S1-921-140-090 PUSH BUTTON LEVER SPRING 27 S1-921-140-090 PUSH BUTTON LEVER SPRING 28 S1-921-120-020 MG ARM SPRING 29 S1-921-140-090 PUSH BUTTON LEVER SPRING 29 S1-921-140-090 PUSH BUTTON LEVER SPRING 29 S1-921-140-090 PUSH BUTTON LEVER SPRING 20 S1-921-140-000 PUSH BUTTON LEVER SPRING 20 S1-921-140-000 PUSH BUTTON LEVER 21 S9-W01-300-100 P WASHER CUT 1.2-3.8-0.3 21 S1-921-140-000 PAUSE BUTTON LEVER 22 S1-921-140-000 PAUSE BUTTON LEVER 23 S1-921-100-000 PAUSE BUTTON LEVER 24 S1-921-100-000 PAUSE BUTTON LEVER 25 S1-921-100-000 PAUSE BUTTON LEVER 26 S1-921-100-000 PAUSE BUTTON LEVER 27 S1-921-100-000 PAUSE BUTTON LEVER 28 S1-921-100-000 PAUSE BUTTON LEVER 29 S1-921-100-000 PAUSE BUTTON LEVER 29 S1-921-000-010 PAUSE BUTTON LEVER 21 S9-W01-300-010 PAGK					39	S1-921-070-030	RF BELT
6 S1-510-020-020 REC SPRING PLATE 41 S1-921-140-160 E ACTUATOR SPRING F S1-921-015-010 CHASSIS ASSY 42 S1-921-093-210 FLWHEEL ASSY 8 S1-921-030-110 HEAD PANEL 43 S1-921-093-210 MAIN BELT 9 S1-921-143-160 BASE ASSY 44 S1-921-120-990 MOTOR PULLEY MAIN BELT 10 S1-921-141-BAO M CONTROL SPRING 45 S6-002-030-220 MOTOR EG530AD-2B MOTOR EG530AD-3B MOTOR EG530AD-2B MOTOR EG530AD-2B MOTOR EG530AD-2B MOTOR EG530AD-3B MOTOR EG530AD-3B MOTOR EG530AD-3B MOTOR EG530AD-3B MOTO					40	S1-921-260-020	CAM GEAR
7 S1-921-015-010 CHASSIS ASSY 42 S1-921-093-210 FLYWHEEL ASSY 8 S1-921-030-110 HEAD PANEL 43 S1-921-090-380 MAIN BELT 9S1-921-143-160 BASE ASSY 44 S1-921-120-590 MOTOR PULLEY MOTOR EGS30AD-2B   10 S1-921-141-8A0 M CONTROL SPRING 45 S6-002-030-220 MOTOR EGS30AD-2B   11 S1-921-260-4A0 SENSING LEVER 46 S6-209-100-100 E HEAD PH-K380-MS1 12 S1-921-043-100 PINCH ROLLER ARM ASSY 47 S1-921-030-050 MM GARM 13 S1-921-130-010 EJECT SLIDE LEVER 48 S1-921-140-210 REC BUTTON LEVER SPRING 15 S1-921-141-3A0 P CONTROL SPRING 49 S1-821-100-690 RECORD SAFETY LEVER 15 S1-921-140-550 PAUSE LEVER(E) 50 S1-821-128-9A0 MOTOR BRACKET   16 S1-921-140-120 PAUSE LEVER SPRING 51 S1-821-010-500 PLAY BUTTON LEVER SPRING 17 S1-921-140-150 BUTTON LEVER SPRING BS 52 S6-201-011-110 HEAD, RP744ZES-0951 C TAPPING SCREW 2-3 19 S1-821-101-500 EUTCON LEVER SPRING B S1-921-140-100 BUTTON LEVER SPRING(B) A S9-P04-200-310 C TAPPING SCREW 2-3 19 S1-821-101-90 E KICK LEVER B S1-921-120-020 MOTOR COLLER SCREW 2-5 S1-921-140-080 PULS BUTTON LEVER SPRING A C S9-B10-200-510 P TAPPING BIND SCREW M2-5 2 S1-921-140-080 PULS BUTTON LEVER SPRING B S1-921-120-020 MOTOR COLLER SCREW M2-5 S1-921-140-080 PULS BUTTON LEVER SPRING B S1-921-120-030 MG ARM SPRING H S1-921-140-010 PAUSE STOPPER SWITCH ACTUATOR F S9-B01-200-510 P TAPPING BIND SCREW M2-5 S1-921-140-080 PULS BUTTON LEVER FRING B S1-921-120-030 MG ARM SPRING H S1-921-140-010 PAUSE BUTTON LEVER SPRING B S1-921-1050-100 P	-						
SI-921-030-110	6	S1-510-020-020	O REC SP	RING PLATE			
9 \$1-921-143-160 BASE ASSY 10 \$1-921-141-80 M CONTROL SPRING 11 \$1-921-260-4A0 SENSING LEVER 12 \$1-921-043-100 PINCH ROLLER ARM ASSY 13 \$1-921-130-010 EJECT SLIDE LEVER 14 \$1-921-140-210 REC BUTTON LEVER SPRING 15 \$1-921-141-3A0 P CONTROL SPRING 16 \$1-921-141-3A0 P CONTROL SPRING 17 \$1-921-140-150 PAUSE LEVER(E) 18 \$1-921-140-150 PAUSE LEVER(E) 19 \$1-921-140-110 PAUSE STOPPER 19 \$1-921-140-110 PAUSE STOPPER 19 \$1-921-140-110 PAUSE STOPPER 19 \$1-921-140-110 PAUSE STOPPER 19 \$1-921-140-150 BUTTON LEVER SPRING(B) 19 \$1-921-140-150 BUTTON LEVER SPRING(B) 20 \$1-921-140-100 BUTTON LEVER SPRING(A) 21 \$6-401-011-490 LEAF SW MSW-1541T 22 \$1-921-140-080 PUSH BUTTON ACTUATOR 23 \$1-921-140-080 PUSH BUTTON LEVER 24 \$1-921-140-100 PLAY BUTTON LEVER 25 \$1-921-140-100 PLAY BUTTON LEVER 26 \$1-921-140-100 PLAY BUTTON LEVER 27 \$1-921-140-100 PLAY BUTTON LEVER 28 \$1-921-120-020 MOTOR COLLER SCREW M2-5 29 \$1-921-140-080 PUSH BUTTON LEVER SPRING(A) 20 \$1-921-140-080 PUSH BUTTON LEVER 21 \$1-921-140-080 PUSH BUTTON LEVER 22 \$1-921-140-080 PUSH BUTTON LEVER 23 \$1-921-140-080 PUSH BUTTON LEVER 24 \$1-921-120-020 MG ARM SPRING 25 \$1-921-140-080 PUSH BUTTON LEVER 26 \$1-921-140-080 PUSH BUTTON LEVER 27 \$1-921-140-080 PUSH BUTTON LEVER 28 \$1-921-120-030 MB SCREW M2-5 29 \$1-921-140-080 PUSH BUTTON LEVER 29 \$1-921-140-090 PLAY BUTTON LEVER 20 \$1-921-140-090 PLAY BUTTON LEVER 21 \$1-921-140-090 PLAY BUTTON LEVER 22 \$1-921-140-090 PLAY BUTTON LEVER 23 \$1-921-140-090 PLAY BUTTON LEVER 24 \$1-921-120-030 MB SCREW 25 \$1-921-140-090 PLAY BUTTON LEVER 26 \$1-921-140-090 PLAY BUTTON LEVER 27 \$1-921-140-090 PLAY BUTTON LEVER 28 \$1-921-100-090 PLAY BUTTON LEVER 29 \$1-	7	S1-921-015-010	O CHASSI	S ASSY			
10 S1-921-141-8A0 M CONTROL SPRING  11 S1-921-260-4A0 SENSING LEVER 12 S1-921-130-010 PINCH ROLLER ARM ASSY 13 S1-921-130-010 PINCH ROLLER ARM ASSY 14 S1-921-140-120 REC BUTTON LEVER SPRING 15 S1-921-141-3A0 P CONTROL SPRING 16 S1-921-140-550 PAUSE LEVER(E)  17 S1-921-140-120 PAUSE LEVER SPRING 18 S1-921-140-120 PAUSE SUPPER 19 S1-921-140-120 PAUSE SUPPER 19 S1-921-140-150 BUTTON LEVER SPRING 19 S1-921-140-150 BUTTON LEVER SPRING PAUSE SUPPER 20 S1-921-140-150 BUTTON LEVER SPRING(B) 21 S1-921-140-150 BUTTON LEVER SPRING(B) 22 S1-921-140-070 BUTTON LEVER SPRING(A) 23 S1-921-140-090 SWITCH ACTUATOR 24 S1-921-140-090 SWITCH ACTUATOR 25 S1-921-140-090 PUSH BUTTON LEVER 26 S1-921-140-090 PUSH BUTTON LEVER 27 S1-921-140-090 PUSH BUTTON LEVER 28 S1-921-140-090 PUSH BUTTON LEVER 29 S1-921-140-090 PUSH BUTTON LEVER 20 S1-921-140-090 PUSH BUTTON LEVER 20 S1-921-140-090 PUSH BUTTON LEVER 20 S1-921-140-090 PUSH BUTTON LEVER 21 S1-921-140-090 PUSH BUTTON LEVER 22 S1-921-140-090 PUSH BUTTON LEVER 23 S1-921-140-090 PUSH BUTTON LEVER 24 S1-921-140-090 PUSH BUTTON LEVER 25 S1-921-140-090 PUSH BUTTON LEVER 26 S1-921-140-090 PUSH BUTTON LEVER 27 S1-921-140-090 PUSH BUTTON LEVER 28 S1-921-140-090 PUSH BUTTON LEVER 29 S1-921-120-0310 PUSH BUTTON LEVER 29 S1-921-120-0310 PUSH BUTTON LEVER 30 S1-921-140-090 PUSH BUTTON LEVER 31 S1-921-140-090 PUSH BUTTON LEVER 32 S1-921-140-090 PUSH BUTTON LEVER 33 S1-921-140-090 PUSH BUTTON LEVER 34 S1-921-100-090 PUSH BUTTON LEVER 35 S1-921-100-090 PUSH BUTTON LEVER 36 S1-921-100-090 PUSH BUTTON LEVER 37 S1-921-100-090 PUSH BUTTON LEVER 38 S1-921-100-090 PUSH BUTTON LEVER 39 S1-921-100-090 PUSH BUTTON LEVER 30	8	S1-921-030-110	O HEAD P	ANEL	43	S1-921-090-380	MAIN BELT
11 S1-921-260-4A0 SENSING LEVER 46 S6-209-100-100 E HEAD PH-K380-MS1 12 S1-921-033-100 PINCH ROLLER ARM ASSY 47 S1-921-030-050 MG ARM 13 S1-921-130-010 EJECT SLIDE LEVER 48 S1-921-140-210 REC BUTTON LEVER SPRING 15 S1-921-141-3A0 P CONTROL SPRING 49 S1-821-100-690 RECORD SAFETY LEVER MOTOR BRACKET 16 S1-921-140-150 PAUSE LEVER (E) 50 S1-821-128-9A0 MOTOR BRACKET 16 S1-921-140-110 PAUSE STOPPER 52 S6-201-011-110 HEAD, RP7442ES-0951 RS 1-921-140-110 PAUSE STOPPER 52 S6-201-011-110 HEAD, RP7442ES-0951 RS 1-921-140-150 BUTTON LEVER SPRING B S1-921-140-150 BUTTON LEVER SPRING B S1-921-120-020 MOTOR COLLER SCREW 2-3 B S1-921-140-070 BUTTON LEVER SPRING C S9-B10-200-510 P TAPPING SCREW 2-5 S1-921-140-070 BUTTON LEVER SPRING C S9-B10-200-510 P TAPPING BIND SCREW M2-5 S1-921-140-090 SWITCH ACTUATOR E S9-P01-200-610 SCREW, TAPPING (CAMERA) M2-4.5 S1-921-140-190 PLAY BUTTON ACTUATOR F S9-B01-200-310 (H)BIND SCREW M2-3 A S1-921-140-190 PLAY BUTTON LEVER F SP S1-921-200-030 MB SCREW 32 S1-921-140-040 REW BUTTON ACTUATOR F S9-B01-200-310 (H)BIND SCREW M2-7 S1-921-030-100 MG ARM SPRING H S1-921-120-030 MB SCREW 31-921-140-060 PLAY BUTTON LEVER J S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 P S1-921-140-060 STOP BUTTON LEVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 S1-921-140-060 STOP BUTTON LEVER L S9-W01-130-200 P WASHER CUT 1.45-3.8-0.5 S1-921-10-0700 FF GEAR	9	S1-921-143-160	O BASE A	SSY			
13   S1-921-130-010   EJECT SLIDE LEVER   48   S1-921-140-210   REC BUTTON LEVER SPRING   14   S1-921-141-3A0   P CONTROL SPRING   49   S1-821-100-690   RECORD SAFETY LEVER   S1-921-140-1550   PAUSE LEVER(E)   50   S1-821-128-9A0   MOTOR BRACKET     16   S1-921-140-120   PAUSE LEVER SPRING   51   S1-821-010-500   PLAY BUTTON LEVER SPRING   HEAD, RP7442ES-0951   HEAD, RP	10	S1-921-141-8A	0 M CONT	ROL SPRING	45	S6-002-030-220	MOTOR EG530AD-2B
13   S1-921-130-010   EJECT SLIDE LEVER   48   S1-921-140-210   REC BUTTON LEVER SPRING   14   S1-921-141-3A0   P CONTROL SPRING   49   S1-821-100-690   RECORD SAFETY LEVER   S1-921-140-1550   PAUSE LEVER(E)   50   S1-821-128-9A0   MOTOR BRACKET     16   S1-921-140-120   PAUSE LEVER SPRING   51   S1-821-010-500   PLAY BUTTON LEVER SPRING   HEAD, RP7442ES-0951   HEAD, RP					46	26 200 100 100	E HEAD DI K200 MG1
13   S1-921-130-010   EJECT SLIDE LEVER   48   S1-921-140-210   REC BUTTON LEVER SPRING   14   S1-921-141-3A0   P CONTROL SPRING   49   S1-821-100-690   RECORD SAFETY LEVER   S1-921-140-1550   PAUSE LEVER(E)   50   S1-821-128-9A0   MOTOR BRACKET     16   S1-921-140-120   PAUSE LEVER SPRING   51   S1-821-010-500   PLAY BUTTON LEVER SPRING   HEAD, RP7442ES-0951   HEAD, RP			0 SENSIN	G LEVER	46		
14 S1-921-141-3A0 P CONTROL SPRING 49 S1-821-100-690 RECORD SAFETY LEVER S1-921-140-150 PAUSE LEVER(E) 50 S1-821-128-9A0 MOTOR BRACKET  16 S1-921-140-120 PAUSE LEVER SPRING 51 S1-821-010-500 PLAY BUTTON LEVER SPRING 17 S1-921-140-110 PAUSE STOPPER 52 S6-201-011-110 HEAD, RP7442ES-0951 C TAPPING SCREW 2-3 PS 1-821-011-590 E KICK LEVER B S1-921-120-020 MOTOR COLLER SCREW 2-3 PS 1-821-011-590 E KICK LEVER B S1-921-120-020 MOTOR COLLER SCREW 2-3 PS 1-921-141-070 BUTTON LEVER SPRING(A) C S9-B10-200-510 P TAPPING BIND SCREW M2-5  21 S6-401-011-490 LEAF SW MSW-1541T D S9-C07-204-510 SCREW, M2-6 S1-921-140-090 SWITCH ACTUATOR E S9-B01-200-610 SCREW, M2-6 S1-921-140-090 PUSH BUTTON ACTUATOR F S9-B01-200-610 SCREW, M2-6 S1-921-140-190 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 MB SCREW M2-9 S1-921-140-060 STOP BUTTON LEVER I S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 P MASHER CUT 1.45-3.8-0.5 P MASHER CUT 1.45-3.8-0.			0 PINCH	ROLLER ARM ASSY	47		
15 S1-921-140-550 PAUSE LEVER(E) 50 S1-821-128-9A0 MOTOR BRACKET  16 S1-921-140-120 PAUSE LEVER SPRING 17 S1-921-140-110 PAUSE STOPPER 52 S6-201-011-110 HEAD,RP7442ES-0951 18 S1-921-140-150 BUTTON LEVER SPRING(B) A S9-P04-200-310 C TAPPING SCREW 2-3 19 S1-821-011-590 E KICK LEVER B S1-921-120-020 MOTOR COLLER SCREW 2-3 19 S1-821-011-590 E KICK LEVER B S1-921-120-020 MOTOR COLLER SCREW 2-3 19 S1-921-140-070 BUTTON LEVER SPRING(A) C S9-B10-200-510 P TAPPING BIND SCREW M2-5  21 S6-401-011-490 LEAF SW MSW-1541T D S9-C07-204-510 SCREW, TAPPING (CAMERA)M2-4.5 22 S1-921-140-090 SWITCH ACTUATOR E S9-P01-200-610 SCREW, M2-6 23 S1-921-140-090 PUSH BUTTON ACTUATOR F S9-B01-200-310 (+)BIND SCREW M2-3 24 S1-921-140-90 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 25 S1-921-030-100 MG ARM SPRING H S1-921-120-030 MB SCREW  26 S1-921-140-040 REW BUTTON LEVER J S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 27 S1-921-140-050 FF, BUTTON REVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 28 S1-921-140-060 STOP BUTTON LEVER K S9-W01-130-200 P WASHER 2-3.5-0.4 29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2-1.4-0.13 31 S1-921-050-100 PACK SPRING 31 S1-921-050-100 S SRESE 31 S1-921-050-100 PACK SPRING 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB							
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18 S1-921-140-150 BUTTON LEVER SPRING(B) 29 S1-821-011-590 E KICK LEVER 20 S1-921-141-070 BUTTON LEVER SPRING(A) 20 S1-921-141-070 BUTTON LEVER SPRING(A) 21 S6-401-011-490 LEAF SW MSW-1541T 22 S1-921-140-090 SWITCH ACTUATOR 23 S1-921-140-080 PUSH BUTTON ACTUATOR 24 S1-921-140-190 PLAY BUTTON LEVER 25 S1-921-030-100 MG ARM SPRING 26 S1-921-140-040 REW BUTTON LEVER 27 S1-921-140-050 FF, BUTTON REVER 28 S1-921-140-050 FF, BUTTON REVER 29 S1-921-140-060 STOP BUTTON LEVER 31 S1-921-140-060 STOP BUTTON LEVER 32 S1-921-140-060 STOP BUTTON LEVER 33 S1-921-140-060 PAUSE BUTTON LEVER 42 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-140-060 STOP BUTTON LEVER 51 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-140-060 STOP BUTTON LEVER 51 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-140-060 PAUSE BUTTON LEVER 51 S1-921-050-060 SENSER 51 S1-921-050-100 PACK SPRING 51 S1-921-050-150 SREEL HUB 51 S1-921-050-150 SREEL HUB			מסווגם ח	CTODDED	52	S6-201-011-110	
21 S6-401-011-490			וו∩ידידום 0 וו∩ידידום	ו דייוידים פסטדאים/ם/	A		
21 S6-401-011-490			DOTION	TEARY DENTING(D)	B	S1-921-120-020	
21 S6-401-011-490			תרבונות מ וורדידונות מ	TEVER CORTNO(A)	C		
22 S1-921-140-090 SWITCH ACTUATOR E S9-P01-200-610 SCREW,M2-6 23 S1-921-140-080 PUSH BUTTON ACTUATOR F S9-B01-200-310 (+)BIND SCREW M2-3 24 S1-921-140-190 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 25 S1-921-030-100 MG ARM SPRING H S1-921-120-030 MB SCREW  26 S1-921-140-040 REW BUTTON LEVER I S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 27 S1-921-140-050 FF,BUTTON REVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 28 S1-921-140-060 STOP BUTTON LEVER K S9-W01-400-100 P WASHER CUT 1.45-3.8-0.5 29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2.1-4-0.13 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	20	DI 721 111 070	DOTION	DEVER DIRING(A)			
23 S1-921-140-080 PUSH BUTTON ACTUATOR F S9-B01-200-310 (+)BIND SCREW M2-3 24 S1-921-140-190 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 25 S1-921-030-100 MG ARM SPRING H S1-921-120-030 MB SCREW  26 S1-921-140-040 REW BUTTON LEVER I S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 27 S1-921-140-050 FF, BUTTON REVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 28 S1-921-140-060 STOP BUTTON LEVER K S9-W01-400-100 P WASHER CUT 1.45-3.8-0.5 29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2.1-4-0.13 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	21	S6-401-011-490	0 LEAF S	W MSW-1541T			
24 S1-921-140-190 PLAY BUTTON LEVER G S9-F08-200-710 AZIMUTH SCREW M2-7 25 S1-921-030-100 MG ARM SPRING H S1-921-120-030 MB SCREW  26 S1-921-140-040 REW BUTTON LEVER I S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 27 S1-921-140-050 FF, BUTTON REVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 28 S1-921-140-060 STOP BUTTON LEVER K S9-W01-400-100 P WASHER 2-3.5-0.4 29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2-1-4-0.13 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	22	S1-921-140-090	O SWITCH	ACTUATOR			
25 S1-921-030-100 MG ARM SPRING  26 S1-921-140-040 REW BUTTON LEVER 27 S1-921-140-050 FF, BUTTON REVER 28 S1-921-140-060 STOP BUTTON LEVER 29 S1-921-140-600 PAUSE BUTTON LEVER 30 S1-921-140-600 PAUSE BUTTON LEVER 31 S1-921-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	23	S1-921-140-080	O PUSH B	UTTON ACTUATOR			
26 S1-921-140-040 REW BUTTON LEVER I S9-W02-300-100 P WASHER CUT 1.2-3.8-0.3 27 S1-921-140-050 FF, BUTTON REVER J S9-W02-500-100 P WASHER CUT 1.45-3.8-0.5 28 S1-921-140-660 STOP BUTTON LEVER K S9-W01-400-100 P WASHER CUT 1.45-3.8-0.5 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	24	S1-921-140-190	O PLAY B	UTTON LEVER			
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29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2.1-4-0.13 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	20	C1 001 140 044	יים שקוח ח	mmon renen	Т	S9-W02-300-100	P WASHER CUT 1 2-3 8-0 3
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29 S1-921-140-600 PAUSE BUTTON LEVER L S9-W01-130-200 P WASHER 2.1-4-0.13 30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB					ĸ	S9-W01-400-100	
30 S1-821-100-700 FF GEAR  31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB					T.	S9-W01-130-200	
31 S1-921-050-060 SENSER 32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB					п	DJ WOI 130 200	I WASHER Z.I I 0.15
32 S1-921-053-100 TAKE UP REEL ASSY 33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	30	21-871-100-100	U FF GEA	T.			
33 S1-829-100-010 PACK SPRING 34 S1-921-050-150 S REEL HUB	31	S1-921-050-060	O SENSER				
34 S1-921-050-150 S REEL HUB	32	S1-921-053-100	O TAKE U	P REEL ASSY			
	33	S1-829-100-010	O PACK S	PRING			
	34	S1-921-050-150	O S REEL	HUB			

### CD MECHANISM EXPLODED VIEW 1/1



### CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	Kanri No.	DESCRIPTION
1	S2-121-A28-400	O COVER GI	EAR
2	S2-511-A21-000	O GEAR MII	DDLE
3	S2-511-A21-100	O GEAR, DR	IVE
A	S1-PN2-03R-OSI	E SCR PAN	PCS 2-3
В	87-261-073-410	O SCR S-TI	PG FLT 2.6-6
ALL	M8-ZZK-E90-070	DA11T3C	

### ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.	NO	PART NO.	KANRI NO.	DESCRIPTION
	1 1 1	8A-CH8-906-01 8A-CH8-905-01 8A-CH8-903-01	0 I	EB,EZ(9L)B<51 EZ <s>&gt; EB,K(E)B&lt;51 K<s>&gt; EB,U(ESF)B&lt;51 U<s>,53 U<l>,52 U</l></s></s></s>
$\triangle$	2	87-A80-036-01	0 <i>P</i>	AC CORD SET ASSY,E W/FLTR VOL<51 EZ <s>&gt;</s>
$\triangle$	2	87-A80-034-01	0 <i>P</i>	AC CORD SET ASSY,K W/F MAY-BG<51 K <s>&gt;</s>
$\triangle$	2	87-A80-109-01	0 <i>P</i>	AC CORD, HK7281 BLK U<51 U <s>,53 U<l>,52 U<w>&gt;</w></l></s>

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